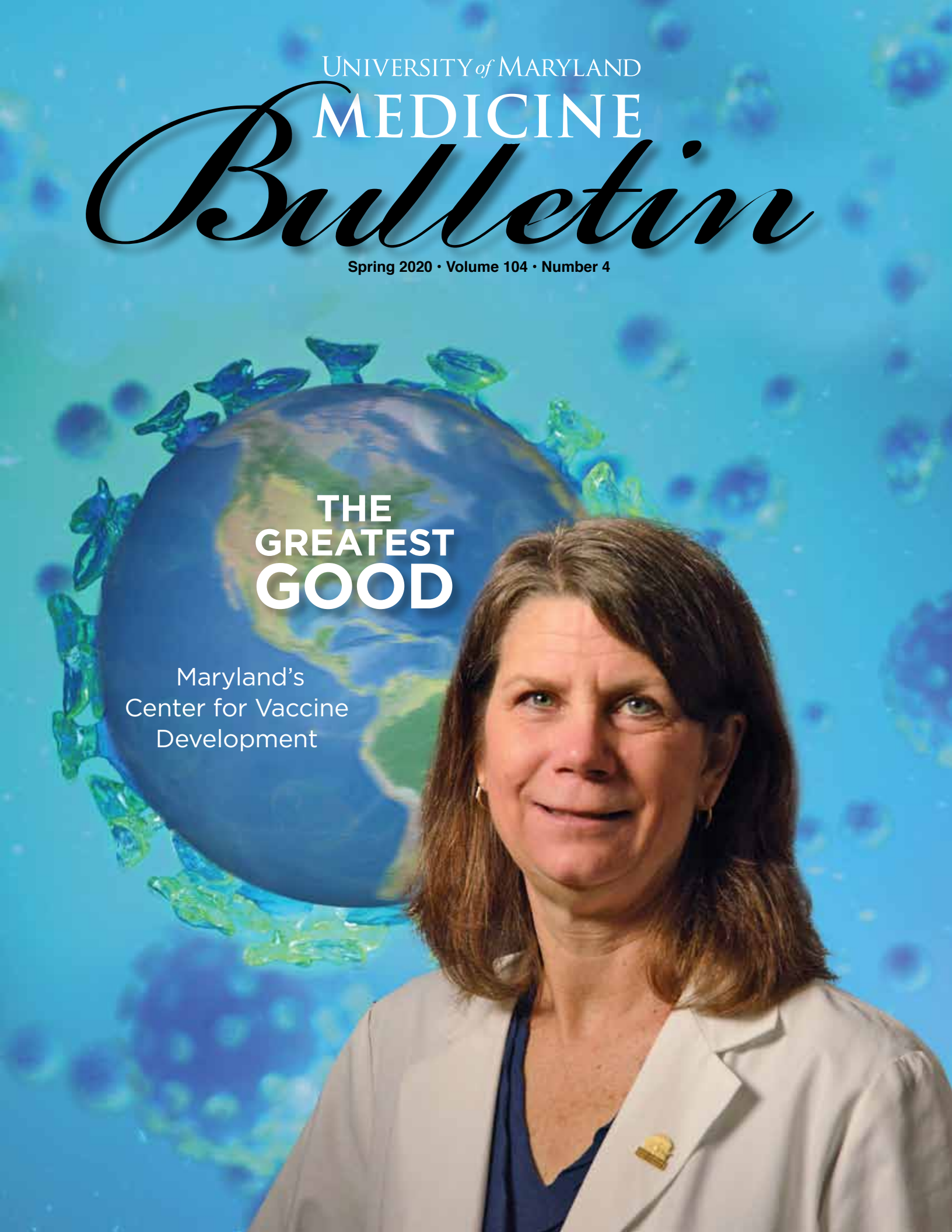
UNIVERSITY of MARYLAND
MEDICINE
Bulletin
Spring 2020 • Volume 104 • Number 4



THE GREATEST GOOD

Maryland's Center for Vaccine Development

Innovations in Renal Transplantation

Advancing the Field of Transplantation

University of Maryland Medical Center Division of Transplantation recently concluded an eight-year study on the benefits of combining living donor kidney transplantation and panniculectomy.

Guidelines suggest those with body mass index (BMI) >40 are less likely to benefit from transplantation. While nearly a quarter of those on the waiting list are categorized as obese, only 15% of renal transplants occur in obese patients. Obese and post-obese patients often have a large abdominal pannus, which may be prohibitive to transplantation.

By using a multidisciplinary team to combine living donor renal transplant and panniculectomy, UMMC was able to greatly improve access to transplantation for the obese and post-obese population. This combined approach, unique to UMMC, yielded shorter-than-expected hospital stays and patients experienced excellent postoperative outcomes, and thus should be considered for patients in whom transplantation might otherwise be withheld on the basis of obesity.

Transplant surgeons at UMMC prepare a living kidney donation for transplantation.

Improving access to transplantation

Superior surgical expertise

To refer a patient or consult with one of our physicians call 410-328-5408

UNIVERSITY of MARYLAND
TRANSPLANT CENTER

Learn more at umm.edu/transplant
Visit our Physician Video Channel at physicians.umm.edu

Bulletin Editorial Board
Harry C. Knipp, '76
Chairman
Gary D. Plotnick, '66
Vice Chairman
John Allen, '14
Frank M. Calia, MD, MACP
Triesta Fowler-Lee, '99
Nidhi Goel, '10
Christopher Hardwick
Sachin D. Kalyani, '03
George C. Kochman III, '08
Brad D. Lerner, '84
Jennifer Litchman
Philip Mackowiak, '70
Larry Pitrof
Michael E. Reichel, '74
Ernesto Rivera, '66
Walker L. Robinson, '70
Julie Rosen
Jerome Ross, '60
Semhar Z. Tewelde, '09
Tuanh Tonnu, '90
Joseph S. McLaughlin, '56
Chairman Emeritus

Medical Alumni Association Board of Directors
Stanford H. Malinow, '68
President
Brad D. Lerner, '84
President-Elect
Paul A. Tarantino, '87
Treasurer
Harry A. Oken, '83
Secretary
John Allen, '14
Triesta Fowler-Lee, '99
Nidhi Goel, '10
Sachin D. Kalyani, '03
George C. Kochman, Jr., '08
Michael E. Reichel, '74
Walker L. Robinson, '70
Semhar Z. Tewelde, '09
Tuanh Tonnu, '90
Directors
Richard Keller, '58
Honorary Regional Vice President
Gary D. Plotnick, '66
Neda Frayha, '06
Helen Cheung, '20
Dr. E. Albert Reece, Dean
Ex-Officio
Larry Pitrof
Executive Director

University of Maryland School of Medicine Board of Visitors
Cynthia L. Egan
Chair
Louis F. Angelos, Esq.
Peter G. Angelos, Esq.
Norman Augustine
Kenneth R. Banks
Alfred R. Berkeley, III
Marc P. Blum, PhD, LLB, CPA
Jocelyn Cheryl Bramble
Michael E. Cryor
Robert E. Fischell, ScD
Neda Frayha, '06
Carolyn B. Frenkil
Michael I. Greenebaum
Jeffrey L. Hargrave
William E. Kirwan, PhD
Harry C. Knipp, '76
Stanford Malinow
Patricia J. Mitchell
Edward Magruder Passano, Jr.
Jacqueline Young Perrins
Abba David Poliakoff, Esq.
Timothy J. Regan
Maurice Reid, '99
Melvin Sharoky, '76
Richard L. Taylor, '75

UNIVERSITY of MARYLAND
MEDICINE
Bulletin

8 Cover story

Maryland's Center for Vaccine Development: The Greatest Good

Maryland's world-renowned Center for Vaccine Development was called into service during the recent outbreak of coronavirus. Kathleen Neuzil, MD, MPH, has headed the center since 2015 when founder Myron "Mike" Levine, MD, DTPH, stepped down. With the unwelcomed arrival of a virus such as this, Neuzil says it's important not to lose track of your day job, which is their focus on influenza through a $200 million NIH grant. (On the cover: Dr. Kathleen Neuzil)

20 Alumnus Profile: Morton E. Smith, '60

Eyeing Something Meaningful

*Growing up in Baltimore, **Morton E. Smith, '60**, wasn't sure what he wanted to do with his life. After trying art school he sat out for two years to do some serious soul searching. Determined to do something meaningful in life, Smith focused on medical school and has since enjoyed a career as an internationally recognized clinician and gifted teacher in his subspecialty of eye pathology.*

22 Alumnus Profile: Robert M. McLean, '88

Maintaining the Doctor Identity

*During his investiture as ACP president last year, **Robert M. McLean, '88**, somewhat jokingly asked those in attendance to pledge that they would not use the word "provider" in the future when referring to another physician. Since that day scores of physicians have taken the pledge and it has become the signature of his tenure.*

Departments

2 Dean's Message
3 News & Innovations
16 Faculty News
18 Medicina Memoriae
24 Advancement
25 Managing Money
26 Recollections
27 Student Activities
28 Class Notes
30 In Memoriam

The University of Maryland *Medicine* **Bulletin**, America's oldest medical alumni magazine, is produced by the Medical Alumni Association of the University of Maryland, Inc., with support from the University of Maryland School of Medicine and the University of Maryland Medical System.

The acceptance of advertising by this publication does not in any way constitute endorsement or approval by the Medical Alumni Association.

Requests to reproduce articles should be directed to: Editor, *Medicine* **Bulletin**, 522 W. Lombard Street, Baltimore, Maryland 21201-1636, or by email: maa@medalumni.umaryland.edu.

Subscriptions are $20 per year (domestic) and $25 (overseas)

For information on advertising, please contact: The Medical Alumni Association of the University of Maryland, Inc.
email: maa@medalumni.umaryland.edu

www.medicalalumni.org

Copyright © 2020 Medical Alumni Association of the University of Maryland, Inc.
All rights reserved.

UNIVERSITY of MARYLAND SCHOOL OF MEDICINE

Editor-in-Chief
Larry Pitrof

Design
Brushwood Graphics Design Group

Art Director
Nancy Johnston

This season holds a great deal of promise for a particularly exceptional year of accomplishments. With several integral faculty members assuming increasingly prominent leadership roles, the school has set off on an exciting trajectory. This is the year for bold leadership.

Kathleen Neuzil, MD, who directs the Center for Vaccine Development and Global Health (CVD), is leading one of the largest ever awarded National Institutes of Health research contracts to the school. Featured in this issue of the *Bulletin*, Dr. Neuzil has assembled an expert and accomplished team at CVD, perfectly poised for such a potentially globally impacting project as developing a universal influenza vaccine. I expect great momentum and productivity from all of our leaders, including several new department chairs, new president and CEO of the University of Maryland Medical System, **Mohan Suntha, MD**, new chancellor of the University System of Maryland, **Jay Perman, MD**, and new interim president of the University of Maryland, Baltimore, **Bruce Jarrell, MD**, all three of whom proudly represent our institution as medical school faculty members.

While the school maintains many leaders on campus, our alumni continue to harness the spirit of influence and inspiration beyond our boundaries. Profiled in this issue, **Robert McLean, '88**, has dedicated his career to quality of care. As a practicing internist and rheumatologist and the medical director for clinical quality at Yale New Haven Health's Northeast Medical Group, Dr. McLean values thoughtful and personalized interactions with his patients. Having served the American College of Physicians (ACP) in several different roles, he now leads the ACP as president. **Morton Smith, '60**, also profiled in this issue, is retiring as professor of ophthalmology at Washington University in St. Louis. Known as the heart and soul of the ophthalmology program, Dr. Smith has dedicated 53 years to scholarship and service. He has earned numerous awards from his students for his gift as an educator, and his mentorship has undoubtedly impacted countless aspiring physicians.

Now a full year since implementing the culture transformation initiative, the school is leading the arenas of academic medicine and biomedical research through its diversity and inclusion initiatives.

While much goes into creating and cultivating a high grade of leadership that transcends the school and its surrounding communities of Maryland, two key ingredients include diversity and inclusivity. During the first quarter of every year, we celebrate Black History Month, Women's History Month, and the diversity of our students, faculty, and staff. Our roles within the medical field carry the charge to honor the many differences among us. Since our goals include having a positive impact on the health of the citizens of Baltimore and the region, we must consider each population group we serve. Now a full year since implementing the culture transformation initiative, the school is leading the arenas of academic medicine and biomedical research through its diversity and inclusion initiatives. Having completed a gender equity in compensation study, launched a new contemporary pathway to promotion, and instituted the women in medicine and science organization dedicated to the professional and academic success of women faculty, we are well ahead of the curve.

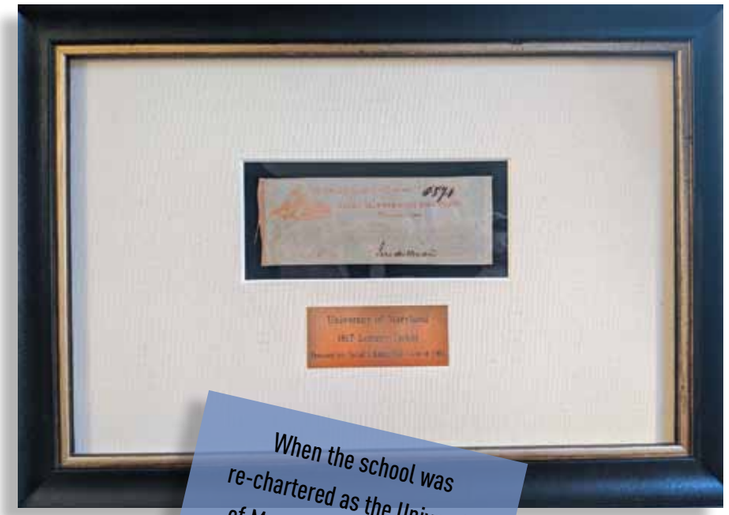
Our goals with initiatives like these always include sustainability and promoting the growth and wellbeing of those within and beyond our academic medical community. With the imminent launch of our new Renaissance Curriculum, we are translating our priorities of leadership and diversity to our students by enabling them to become excellent clinicians, researchers, scholars, and critical thinkers who compassionately care about social justice issues and the need for diversity. I am increasingly proud of how well the school is represented by all groups, from our students to our alumni and everyone in between

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

Martinez, '98, Promoted to Associate Dean for Medical Education & Student Experience

Joseph P. Martinez, '98 associate professor in the departments of emergency medicine and internal medicine at Maryland, was named associate dean for medical education and student experience. In this role he will lead and manage the office of medical education with broad oversight of the school's curriculum including structure, content, delivery, and assessment. A chief focus has been placed on the implementation of the new Renaissance curriculum for MD students expected to be in place by fall. Martinez is also responsible for monitoring and enhancing the learning environment for students during their time at Maryland. He has been a member of the dean's office since 2005 when he was appointed assistant dean of student affairs.

Early Lottery Ticket Donated to Bowers Museum



When the school was re-chartered as the University of Maryland in 1812, faculty were permitted to conduct a lottery in an attempt to raise $40,000.

The Medical Alumni Association Akiko K. Bowers Museum of Medical Artifacts is now in possession of an original lottery ticket issued by the University of Maryland shortly after its founding. **David S. Klein, '80**, of Longwood, Florida, gifted the artifact to the MAA last fall.

After receiving a state charter to establish the College of Medicine of Maryland in 1807, the school's founders continued teaching from their homes since the legislation didn't provide any financial support. When the school was re-chartered as the University of Maryland in 1812, faculty were permitted to conduct a lottery in an attempt to raise $40,000 to construct a medical building. The amount was later increased to $100,000 but failed due to the lack of pubic support. Subsequent efforts, including this one from 1817, were only partially successful. As a result, the faculty generated the funding for their building using their own resources.

The ticket is on display in the Knipp Family Library on the first floor of Davidge Hall.

Lam,'08, Receives School's Diversity Award

Clarence K. Lam, '08, Maryland state senator from the 12th legislative district, received Maryland's 2020 Alumni Diversity Award and Inclusion. The presentation was made during the 13th Annual Celebrating Diversity Reception and Dinner on February 29.

After medical school, Lam trained in preventive medicine and served as chief resident at Johns Hopkins where he later earned a master's degree in public health. He holds a faculty appointment there as an assistant scientist in the department of health policy & management and serves as program director of the preventive medicine residency program. In addition, he continues seeing patients as medical director of the Johns Hopkins Applied Physics Laboratory Occupational Medicine Clinic. Lam was elected to the Senate of Maryland in 2018 and is one of three doctors in the legislature. His current assignments include the senate education, health, and environmental affairs committee, the senate executive nominations committee, and joint committee on ending homelessness. He is a member of the Baltimore County delegation.

Gareis Family Legacy Celebrated

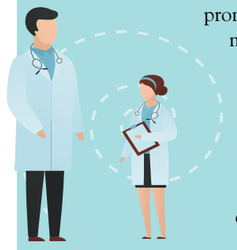
John W. Gareis, '67, and wife Delores during an interview with German TV in Querfurt

John W. Gareis, '67, traveled to Querfurt, Germany, last year as his great-great-granduncle- physician was honored for his advocacy for public health in America. Dr. Heinrich August Schmid immigrated to America at age 19 and was educated at the University of Virginia before attending medical school at the University of Pennsylvania. He eventually settled in White Plains, N.Y., where he became founder and chief medical officer for White Plains Hospital in 1893. Schmid was a tireless advocate for public health issues particularly relating to sanitation, and he was also known for never turning away a patient even if he/she was unable to pay. Gareis was in Germany to unveil a plaque at the house in Germany where Schmid was born. A year earlier he attended a 125th anniversary celebration of the founding of White Plains Hospital where Schmid was also fondly remembered. Gareis's late father, **Louis**, was a 1938 graduate of Maryland.

AROUND CAMPUS

Promotion Pathway for Non-Tenure Track Faculty

A new contemporary pathway to promotion was created to benefit faculty who are clinical-educators or clinical-administrators at Maryland. The new policy is based on a recent analysis of faculty promotions in the academic departments that revealed a gender disparity in promotion rates for faculty in clinical departments. Expected to be introduced in fall, the pathway has been welcomed by faculty across both clinical and basic science departments.



School's CME Receives Re-Accreditation with Commendation

The medical school was awarded "Re-Accreditation with Commendation" for its continuing medical education by the Accreditation Council for Continuing Medical Education (ACCME). "With commendation," the highest level of achievement recognized by ACCME, is for the next six years. The accreditation is designed to assure the medical community and the public that institutions are delivering education that is relevant to clinicians' needs, evidence-based, evaluated for its effectiveness, and independent of commercial influence.

US News & World Report Ranks Medical Center for Ear, Nose and Throat and Cancer

The University of Maryland Medical Center (UMMC) is ranked #10 in caring for patients with ear, nose and throat conditions and #16 in cancer care, according to the 2019-2020 *US News & World Report* Best Hospitals specialty rankings.

UMMC moved up 29 places in the ENT rankings and 16 places in the rankings for cancer compared to the 2018-2019 *US News & World Report* Best Hospitals specialties list.

The publication analyzes data from nearly 5,000 hospitals and survey responses from more than 30,000 physicians to rank hospitals in 16 adult specialties. In 12 of the specialty areas, including cancer and ENT, the ranking is determined largely by objective data. For the first time, patient experience was also factored into the rankings, which take into account patient outcomes, key programs and services, advanced technologies, nursing and other professional staff, volume of high-risk patients, and endorsements by national organizations recognizing high standards of care.

#10 ENT

#16 cancer care

The children's heart program at the University of Maryland Children's Hospital is ranked among the nation's top 50 pediatric cardiology and heart surgery centers for the second year in a row, according to the 2019-2020 edition of the *U.S. News & World Report* Best Children's Hospitals.

Milloff Butler, '08, Honored for Volunteerism

Alexandra Milloff Butler, '08, received the 2020 Consano Ripples of Hope Award, presented for her work in increasing awareness and raising research dollars for oligodendroglioma, a rare brain cancer that she has been battling. Consano is a crowdfunding platform for medical research. Last year's recipient was former NBC news anchor Tom Brokaw. Milloff Butler is a pediatric hospitalist at Randall Children's Hospital in Portland.

Alexandra Milloff Butler, '08, with husband Khayree Butler, '08, at the awards ceremony.

Brouillet, '71, Heading Rehabilitation and Orthopaedic Board

George H. Brouillet, Jr., '71 was named chair of the board of directors for the University of Maryland Rehabilitation and Orthopaedic Institute—formerly known as Kernan Hospital—where he is chief of surgery and director of the joint replacement center.

Chizmar, '07, Named EMS Medical Director

Timothy P. Chizmar, '07, was recently named State Emergency Medical Services (EMS) Medical Director. The appointment was announced by the Maryland Institute for Emergency Medical Services Systems. Chizmar is an emergency room physician with University of Maryland Upper Chesapeake Health, medical director for Harford County EMS, and an active member of the Bel Air Volunteer Fire Company.

Contributing writers to News/Innovations include: Bill Seiler • Karen Warmkessel • Julie Rosen Photos by: John Seebode • Mark Teske • Tom Jemski • Richard Lippenholz

PLANNED GIVING

Your LEGACY... *it's* Personal

When Dr. Keyser was looking for additional ways to support his medical school alma mater, he designated the University of Maryland Baltimore Foundation, Inc. (UMBF) the beneficiary of his retirement account for use by the University of Maryland School of Medicine Department of Pediatrics.

"Giving back 'down the road' was so easy to do and costs me nothing now. This is my way of saying thanks!"

—Ronald E. Keyser, MD '60

How will you inspire others with your legacy?

Legacy gifts to the University of Maryland Baltimore Foundation cost nothing up front. Whether your beneficiary designation is through your will, IRA, pension plan, a Charitable Gift Annuity (CGA), or life insurance policy, your gift is customizable and adaptable to changing financial situations.

Your gift can:

- build an endowment;
- support faculty;
- advance research;
- provide scholarships;
- support the School of Medicine's other critical needs.

Whatever form your legacy gift takes, you can have an impact on the future of medicine.

For more information about bequests, gifts that pay income for life, and other innovative ways to support the School of Medicine, please visit: www.umbfplannedgiving.org.

Or contact:
Marjorie Bray
Director of Development, Alumni
University of Maryland School of Medicine
410-706-0418
mbray@som.umaryland.edu

**PLEASE NOTE: Legacy gifts should be made payable to the University of Maryland Baltimore Foundation, Inc., for the benefit of the University of Maryland School of Medicine.*

UNIVERSITY of MARYLAND SCHOOL OF MEDICINE

By Christianna McCausland

The Greatest Good

With a contract that could reach up to $200 million dollars to research influenza and a robust new leader, The Center for Vaccine Development and Global Health is expanding its public health-driven mission to a wider audience

Kathleen Neuzil, MD, MPH, has been busy. Very busy.

As the director of the Center for Vaccine Development and Global Health (CVD), Neuzil is on the short list of people to call when there is a significant global health issue. As the outbreak of coronavirus continues to unfold, the phones remain busy at CVD with entities like the World Health Organization (WHO) seeking perspective from its experts.

The same reputation for excellence that compels WHO to reach out to CVD is also evidenced by the center's receipt last September of a National Institutes of Health (NIH) contract of up to more than $200 million for influenza research, one of the largest contracts ever awarded to the medical school.

Dr. Kathleen **Neuzil** in Burkina Faso

Dr. Miriam **Laufer** conducts maternal interventions research in Malawi

Under the $200 million contract, not only will CVD contribute to research, it will be one of seven centers nationwide that will work together toward the ambitious goal of creating a better, more long-lasting influenza vaccine.

While coronavirus is certainly top-of-mind at CVD these days, Neuzil remains focused on the center's ongoing mission.

"There's always two parts to an outbreak like this and one is that you can't lose track of your day job," she states. "Everything we're working on with influenza—developing better clinical trial designs, our human challenge models for influenza virus, establishing vaccines that can be made faster and don't require eggs—is already helping us respond to this coronavirus outbreak."

"Second, we consider it our duty to contribute in any way we can," she continues. "We don't have any coronavirus vaccines in development here. We are, however, contributing to NIH by contributing to vaccine and treatment trials. We may be part of an effort to test interventions here and would certainly be prepared to step up and do so if asked by NIH or others."

A New Leadership Era

Neuzil came to her "day job" at CVD four years ago from PATH, a nonprofit that advances global health equity, where she was instrumental in the introductions of rotavirus, HPV, and Japanese encephalitis vaccines. She is perhaps one of the world's most influential research scientists and advocates in vaccine development and policy. She is the only U.S. member of the World Health Organization Strategic Advisory Group of Experts on Immunization (SAGE), for example. In October of 2019, she was inducted into the prestigious National Academy of Medicine.

Having been interested in vaccinology since she was a medical school student, Neuzil describes the job at CVD as "a dream come true." Neuzil took over CVD's top post from Myron "Mike" Levine, MD, DTPH, who founded the center in 1974 and remained its director from its inception until 2015. Levine is a highly renowned vaccinologist and much beloved leader. He is now the associate dean for global health, vaccinology, and infectious diseases.

"Mike is a visionary," Neuzil states. "His idea to have laboratory and clinical scientists and epidemiologists all in one place was unheard of at the time, and I would be foolish not to build on that strong model. I really want to build on that legacy."

The foundation of that model was laid predominantly through CVD's work in enteric diseases and malaria. Neuzil saw that CVD's model coupled with the university's existing expertise in influenza made the center a fitting place to continue her life's work.

At present, Neuzil is building the faculty expertise needed to create a multi-disciplinary, respiratory viral research program on par with the existing malaria and enteric disease programs at CVD. It is pressing work; most pathogens that have emerged in recent decades, from Zika to Ebola, have been viruses. The seasonal flu alone caused approximately 35 million illnesses in the 2018-19 season and 34,200 deaths in the US, according to the Centers for Disease Control and Prevention (CDC).

A significant way CVD contributes to interventions is through its state-of-the-art human challenge trials.

Under the $200 million contract, not only will CVD contribute to research, it will be one of seven centers nationwide that will work together toward the ambitious goal of creating a better, more long-lasting influenza vaccine.

"We see this as a tremendous opportunity to be part of, from the beginning, a major initiative for our country and, hopefully, global populations," Neuzil states.

A Global Outlook

The emphasis on global populations applies across all CVD's projects. While its work contributes to health outcomes in the US, many of CVD's projects focus on low-resource countries that lack the well-funded vaccine programs available in America and other parts of the developed world. CVD's areas of specialty include enteric diseases, diarrheal diseases that cause more than half a million deaths in children under age five annually, as well as malaria, a disease that registers 200-300 million cases every year around the globe and kills half a million people. As with diarrheal disease, most malarial deaths are children.

Miriam Laufer, MD, MPH, associate director for malaria research and a professor of pediatrics, has worked on malaria for nearly 20 years at CVD. She states that while there has been a global decline in the illness, driven by a combination of prevention (access to mosquito bed nets, use of insecticides) and better medications, the decline has plateaued and drug resistance is emerging in areas such as Southeast Asia. She states that without a highly effective vaccine, malaria will never be eradicated. Her team is working on evaluating malaria vaccines by conducting clinical trials in Africa and also testing new vaccines here in the clinical facilities at CVD. They are also using advances in genomics and proteomics to design new and more effective vaccines for the future.

"What is unique [at CVD] is the focus on using science to have an impact on public health, mostly on children and predominantly in low-resource settings," says Laufer. "Our expertise in studying interventions is recognized domestically and internationally."

The human challenge model has been used successfully to accelerate vaccine development for many diseases including *Shigella*, cholera, Dengue virus, and typhoid.

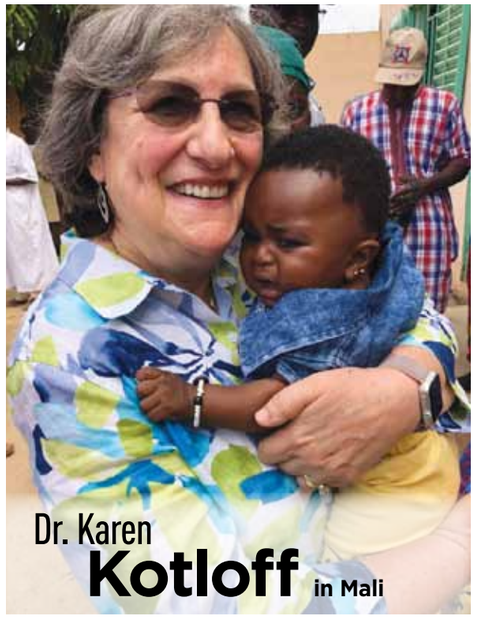
A significant way CVD contributes to interventions is through its state-of-the-art human challenge trials. In the case of malaria, for example, volunteers are given a vaccine and return months later to be bitten five times by malaria-infected mos-

quitoes stored in a specially designed insectary. Each day thereafter the volunteers receive molecular blood testing, and they are treated if they test positive for malaria. If they are protected from getting malaria, the vaccine may advance.

Impacting Those in Need

The human challenge model has been used successfully to accelerate vaccine development for many diseases including *Shigella*, cholera, Dengue virus, and typhoid. Recently, CVD led an influenza human challenge study as part of the NIAID-funded Vaccine and Treatment Evaluation Unit (VTEU) contract.

Penny Heaton, chief executive officer of the Bill & Melinda Gates Foundation Medical Research Institute, is working in partnership with CVD experts on the development and standardization of assays that will help measure the immune response to future *Shigella* vaccines. She also works with Laufer's team on better understanding the immunologic mechanism of protection for malaria vaccines. Heaton notes that CVD's experience with its challenge model in adults has the potential to streamline vaccine development for children in both *Shigella* and malaria. It is work on diseases that disproportionately affect the poor in low resource settings.



"I am impressed by Kathy's leadership and her team's ability to conduct robust clinical studies in low-resource settings," says Heaton. "This is a huge challenge—and they do it well."

Karen Kotloff, MD, associate director for clinical research and professor of pediatrics, and head, infectious disease and tropical pediatrics, is principal investigator on a number of CVD's largest projects, including the VTEU.

> "What is unique [at CVD] is the focus on using science to have an impact on public health, mostly on children and predominantly in low-resource settings." **Laufer**

Children in Burkina Faso

The VTEU has 16 ongoing projects as diverse as testing an anthrax vaccine to combat bioterrorism to researching the use of topical antibiotics to treat babies with staph infections in low-resource neonatal units. Kotloff also oversees the Vaccine Impact on Diarrhea in Africa (VIDA) study, which aims to assess the causes of diarrhea in young children.

Additionally, Kotloff is currently enrolling nearly 40,000 pregnant women in Mali to embark on a Bill & Melinda Gates Foundation-funded study to research the impact of azithromycin administration on reducing infant mortality. According to Kotloff, it is this capacity to have an impact on a large scale that makes CVD's work so rewarding.

"Global health has always captivated me," she says. "When we care for patients, we try to help one patient at a time; here you find something that works and you can help millions of children at a time."

Marrying Science and Policymaking

To carry out the goal to impact millions of people takes a robust leader and strong policies that support vaccination programs.

"Dr. Neuzil is a very energetic, natural leader who has re-energized the center as a whole," Kotloff states. "That has a spillover effect to others. She has been successful at getting funding, and that can be attributed to her leadership, energy, and ability to connect with people."

Laufer adds that Neuzil articulates a strong sense of mission, one that takes into account the realities of modern global health. As can be seen with outbreaks like coronavirus and SARS, the boundary between diseases of developed and less-developed geographies is increasingly disappearing. CVD operates under a public health-driven research model where positive patient outcomes take precedence over creating profitable products.

"The potential for impact drives our science and our research so that even the most basic scientist is thinking about how what they're doing could translate into a product or discovery that would have an impact on human health," Laufer states.

Neuzil's public health driven ideology is informed by her experience at PATH. Through that position as well as her memberships at SAGE, on the CDC Advisory Committee on Immunization Practice, and countless other leadership roles, Neuzil has honed her ability to translate science into policymaking.

"What sets us apart from other academic institutions is that any work we do or vaccine we develop, or trial we design, we try to keep the end goal in mind, and to us the end goal means getting the vaccine to those who need it," Neuzil explains. "To do that we need either a US or a global policy that recommends that vaccine."

"We are fortunate to have many current and former faculty who have been a part of these policy committees," she continues. "We understand. We've heard the data presented, we've been faced with making these recommendations, so when we design our research, from the very beginning, we understand what policymakers will need."

Heaton says that CVD's understanding of the importance of rigor in preclinical and clinical research and its commitment to robustly performing immunologic assays distinguishes its work.

"They have the expertise to optimize and fully characterize complex assays," Heaton explains. "This may sound boring but it's critical for vaccine development and acceptance of vaccine programs by regulatory agencies and policymaking bodies."

Preparing for the Future

CVD operates in a dynamic world. Even a disease like malaria, which has been pernicious for centuries, is evolving. Yet the biggest threat to global health may not be the next big outbreak but rather the lack of trained vaccinologists to combat it. CVD is one of only two NIH T32 training centers specific to vaccinology in the country. In addition, CVD hosts dozens of students, residents, and fellows each year. Neuzil would like to see the training program expand and provide financial support to encourage more young people into the field.

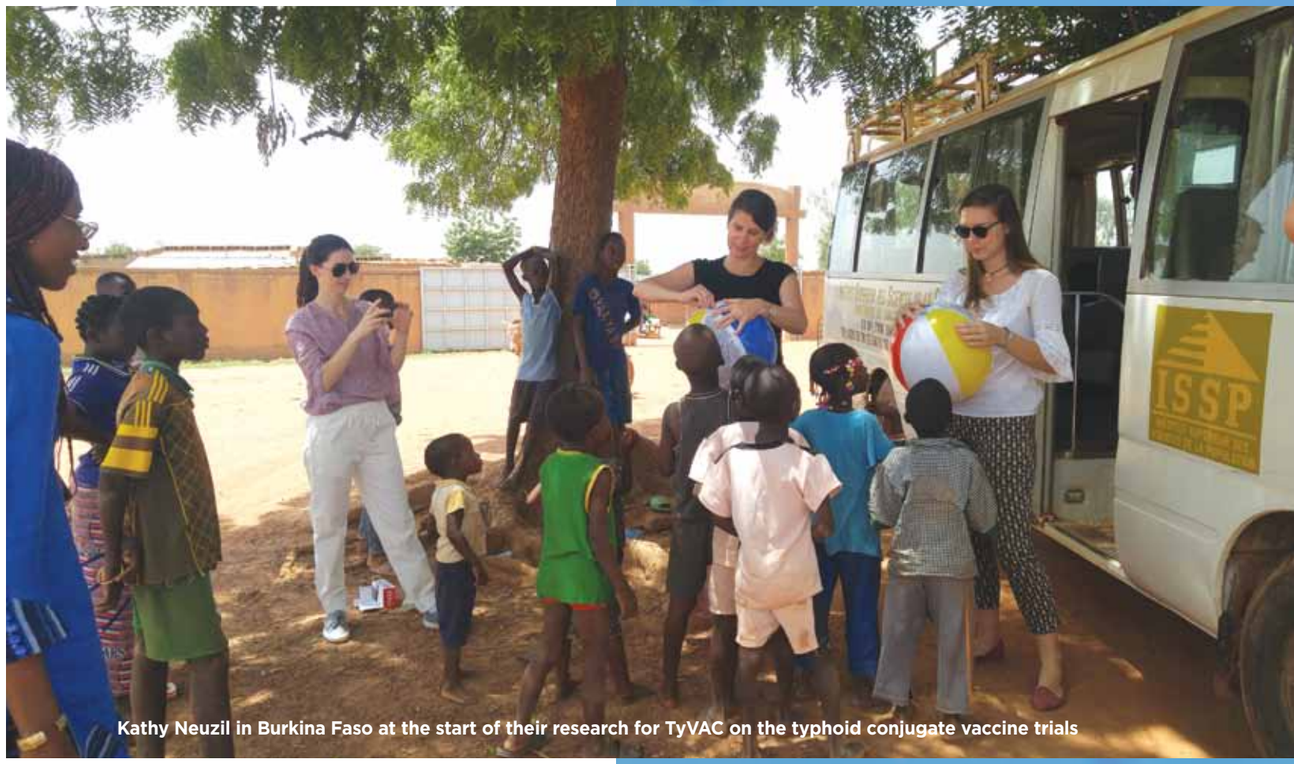
"We certainly want the next academic stars to be trained here at the University of Maryland School of Medicine, but NIH, CDC, industry, they need trained vaccinologists, too," says Neuzil. "In a broad sense we want to help provide that technical capacity."

Global health is not immune from the challenges facing other fields, most notably big data. Neuzil says they are investing in faculty with modeling expertise and collaborating with the Institute of Genome Sciences to meet this challenge.

"The field of science changes very fast and there are constantly new techniques, new diagnostics, and new equipment," she adds. "We need to invest in the advancements our faculty need to continue being on the leading edge of the field."

The End Game

Anita K. M. Zaidi, MBBS, SM, is the director of vaccine development, surveillance, and enteric and diarrheal diseases at the Bill & Melinda Gates Foundation. Together with CVD she worked on the Typhoid Vaccine Acceleration Consortium (TyVAC), which is led by Neuzil. Zaidi states that TyVAC has been one of her favorite grants to watch given the amazing progress Neuzil helped deliver for typhoid conjugate vaccines against typhoid control. Typhoid is a disease that impacts 12 million people a year.



Kathy Neuzil in Burkina Faso at the start of their research for TyVAC on the typhoid conjugate vaccine trials

"CVD and Kathy brought a lot of strengths to this project given [their] technical knowledge about vaccine preventable illnesses, vaccine clinical trials design and execution, and global and country level policy and decision-making around vaccine introduction," says Zaidi.

While the news headline version of global health and infectious disease may be grim of late, it is programs like TyVAC that keep Neuzil and CVD energized and optimistic.

"As a direct result of our work through TyVAC, 10 million children in Pakistan were vaccinated with a typhoid conjugate vaccine in November and December," says Neuzil. "I remind my team that there are people who work their entire careers to have that sort of outcome on 10 million children. The best part about working here is we get really good news almost every day."

> "What sets us apart from other academic institutions is that any work we do or vaccine we develop, or trial we design, we try to keep the end goal in mind, and to us the end goal means getting the vaccine to those who need it. To do that we need either a US or a global policy that recommends that vaccine."
>
> **Neuzil**

Patents

Jerimy Polf, PhD

❖ **Jerimy Polf, PhD**, associate professor, department of radiation oncology, along with co-inventors in Baltimore, Houston, and South Africa, was granted U.S patent #10502845B2 for "Techniques for Producing an Image of Radioactive Emissions Using a Compton Camera," in December 2019.

❖ **Myron Levine, MD, DTPH**, The Simon and Bessie Grollman Distinguished Professor of Medicine, associate dean for global health, vaccinology and infectious diseases; **James Galen, PhD**, professor, department of medicine; and **Eileen Barry, PhD**, professor, department of medicine, were awarded a patent from India for "Attenuated Salmonella Enterica Serovar Paratyphi A and Uses Thereof," which expires in February 2030.

Publications

Joseph Cheer, PhD

❖ **Joseph Cheer, PhD**, professor, and **Sonia Aroni, PhD**, postdoctoral fellow, both from the department of anatomy and neurobiology, were among the co-authors of "Prenatal THC Exposure Produces a Hyperdopaminergic Phenotype Rescued by Pregnenolone," published in *Nature Neuroscience* in October 2019.

❖ **Marc Hochberg, MD, MPH**, professor, department of medicine, was first author of "Effect of Intra-Articular Sprifermin vs Placebo on Femorotibial Joint Cartilage Thickness in Patients with Osteoarthritis: The FORWARD Randomized Clinical Trial," published in the *Journal of American Medicine Association* on October 9, 2019.

Marc Hochberg, MD, MPH

❖ **Victoria Halperin Kuhns, PhD**, postdoctoral fellow, and **Owen Woodward, PhD**, assistant professor, were among the co-authors of "Target Genes, Variants, Tissues and Transcriptional Pathways Influencing Human Serum Urate Levels," published in *Nature Genetics* in October 2019.

❖ **Myron Levine, MD, DTPH**, mentioned above; **Karen Kotloff, MD**, professor of pediatrics; **Dilruba Nasrin, MBBS, PhD**, assistant professor of medicine; **Sharon Tennant, PhD**, associate professor of medicine; and **Helen Powell, PhD**, research associate, all from the Center for Vaccine Development and Global Health, co-authored "Diarrhoeal Disease and Subsequent Risk of Death in Infants And Children Residing in Low-Income and Middle-Income Countries: Analysis of the GEMS Case-Control Study and 12-Month GEMS-1A Follow-On Study," published in the *Lancet Global Health* in December 2019. Separately, Levine wrote "Monoclonal Antibody Therapy for Ebola Virus Disease," published in the *New England Journal of Medicine* in December 2019.

Myron Levine, MD, DTPH

Amal Mattu, MD

❖ **Amal Mattu, MD**, professor, department of emergency medicine, was among the authors of "Lay Responder Care for an Adult with Out-of-Hospital Cardiac Arrest," published in the *New England Journal of Medicine* in December 2019.

❖ **Kathleen Neuzil, MD, MPH**, The Myron M. Levine, Professor in Vaccinology, professor of medicine and pediatrics, director of the Center for Vaccine Development and Global Health, was among the authors of "Phase 3 Efficacy Analysis of a Typhoid Conjugate Vaccine Trial in Nepal," published in the *New England Journal of Medicine* in December 2019.

Kathleen Neuzil, MD, MPH

❖ **Robert Reed, MD**, associate professor, department of medicine, was among the co-authors of "Metoprolol for the Prevention of Acute Exacerbations of COPD," published in *New England Journal of Medicine* in December 2019.

Erik von Rosenvinge, MD

❖ **Erik von Rosenvinge, MD**, associate professor, department of medicine, and **Jonathan Pearl, MD**, associate professor, department of surgery, were among the co-authors of "Randomized Trial of Medical versus Surgical Treatment for Refractory Heartburn," published in the *New England Journal of Medicine* in October 2019.

Awards & Honors

❖ **Joshua Abzug, MD**, associate professor, department of orthopaedics, was selected by the American Association for Hand Surgery as recipient of the 2020 Lean & Green Award. This award honors a deserving association member who has decreased the amount of waste generated by hand surgery, thereby decreasing costs related to these procedures.

Joshua Abzug, MD

❖ **Monique Bellefleur, MD**, clinical assistant professor, **Mark Dimino, MD**, assistant professor, **Stephanie Kahntroff, MD**, assistant professor, and **Anne Savarese, MD**, assistant professor, all from the department of anesthesiology; **William Regine, MD, FACR, FACRO**, The Isadore & Fannie Schneider Foxman Endowed Chair and Professor in Radiation Oncology, and **Elizabeth Nichols, MD**, associate professor, both from the department of radiation oncology, were named *Baltimore Magazine's* 2019 Top Doctors.

Steven Czinn, MD

❖ **Steven Czinn, MD**, The Drs. Rouben and Violet Jiji Endowed Professor of Pediatrics and Chair, Department of Pediatrics, is one of 20 individuals and businesses that were recognized for their "significant impact on Pathfinders for Autism's growth and development of the last 20 years." The 20 for 20 Honorees were honored on January 30, 2020 in Hunt Valley, Md.

❖ **Michael Shipley, PhD**, The Donald E. Wilson Distinguished Professor, department of anatomy and neurobiology, was elected as an American Association for the Advancement of Science Fellow in recognition of his achievements in advancing science. Shipley was honored for his work on understanding the organization, function, and development of neural circuits using the mammalian olfactory bulb as a model cortical network.

Michael Shipley, PhD

Appointments

❖ **Maureen Black, PhD**, The John A. Scholl, MD and Mary Louise Scholl, MD Professor in Pediatrics was invited to serve on the advisory board of the *Lancet* Commission on Global Hearing Impairment, organized by Duke University.

Maureen Black, PhD

Black was also invited to serve on the WHO Committee to establish guidelines for complementary feeding. Both appointments are two-year terms.

Miriam Blitzer, PhD

❖ **Miriam Blitzer, PhD**, professor, department of pediatrics, has been appointed to the Sanford Children's Genomic Medicine Consortium External Scientific Advisory Committee for a three-year term.

❖ **E. Albert Reece, MD, PhD, MBA**, The John Z. and Akiko K. Bowers Distinguished Professor and Dean, and UMB executive vice president for medical affairs, was appointed associate editor of the *American Journal of Obstetrics & Gynecology for Diabetes, Obesity, and Metabolism*.

Grants & Contracts*

Nariman Balenga, PhD

❖ **Nariman Balenga, PhD**, assistant professor, department of surgery, received a four-year, $1,232,228 grant from National Institute of General Medical Sciences for "Mechanisms of Activation, Signaling and Trafficking of Adhesion GPCRs GPR64 and GPR56."

❖ **Wilbur Chen, MD**, associate professor of medicine, and **Karen Kotloff, MD**, mentioned above, both from the Center for Vaccine Development and Global Health, were funded $2,671,955 by the Bill and Melinda Gates Foundation in partnership with Institut Pasteur (a non-profit research organization in Paris, France) to conduct a Phase 2 study of the efficacy of a *Shigella* vaccine.

Wilbur Chen, MD

❖ **James Gold, PhD**, professor, department of psychiatry, was awarded a five-year, $2.67 million R01 award from the National Institute of Mental Health for "Cognitive Neurocomputational Task Reliability & Clinical Applications."

Karen Kotloff, MD

❖ **Karen Kotloff, MD**, mentioned above, received an award from the National Institute of Allergy and Infectious Diseases that renews the contract for Maryland to serve as part of the Vaccine and Treatment Evaluation Network (VTEU). This funding provides for up to $29 million among the nine VTEU sites over the next seven years for a total of up to $203 million in potential contracts among the nine sites. Kotloff was also awarded $1.9 million from the Bill and Melinda Gates Foundation as a supplement for the Chile Health and Mortality Prevention Surveillance Research Program.

❖ **Archibald Mixson, MD**, professor, department of pathology, received a four-year, $1,716,327 R01 grant from the National Institute of Biomedical Imaging and Bioengineering for "Developing Nanoplexes for RNAi-expressing Plasmids."

❖ **Kathleen Neuzil, MD, MPH**, mentioned above, received a seven-year, $19,202,774 grant from the National Institute of Allergy and Infectious Diseases for "Leadership Group for the Infectious Diseases Clinical Research Consortium."

❖ **E. Albert Reece, MD, PhD, MBA**, mentioned above, and **Peixin Yang, PhD**, professor, department of obstetrics, gynecology & reproductive sciences, were awarded a five-year, $2.5 million R01 renewal for "Molecular Signalling Pathways and Cellular Stress in Diabetic Embryopathy."

**Grants & Contracts of $1 million and above*

By Wayne Millan

Weeks and Months

JUSTICE HARRY BLACKMUN

Nearly a half century has passed since the United States Supreme Court issued its one ruling that nearly every American citizen can still name if not describe in detail, *Roe v. Wade*. In that decision of 1973, for which the majority opinion was written by Justice Harry Blackmun, the court held that women in the U.S. had an implied right to privacy under the 9th and 14th Amendments allowing them to decide, during the first months of a pregnancy, whether or not they wished to terminate that pregnancy for reasons of their own choosing. This decision and its implications continue to be the source of debate and argument as bitter and personal as any of the past 50 years. To the side of intense religious and philosophical disagreements lie assertions that the justices delved into areas of medicine, and the history of medicine, where they had no firm footing nor the professional background to effect such a dramatic social change as "abortion on demand" throughout all 50 states.

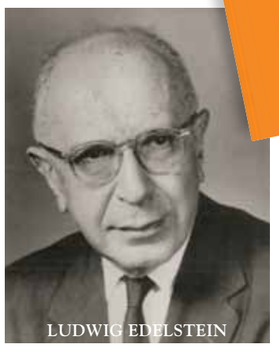
Human development in utero has long been measured in terms of weeks passed from a presumed point of conception, and an infant delivered at full term is thus generally estimated to have been developing within its mother's womb for an average of 38 weeks. "Gestational age," on the other hand, adds an additional two weeks to that point, the "embryonic" or "fetal" age, so as to figure in the average time since the mother's last observed menses. Even the most accurate of 21st-century observations has not entirely taken away uncertainty regarding the distance between gestational age and embryonic.

Justice Blackmun's opinion continues to be attacked on various of its particular assertions on top of the court's broad interpretation, by a 7-to-2 majority, of the 14th Amendment's "due process" clause. One of these particulars is Blackmun's use of a trimester framework rather than weeks of gestation. This criticism is not entirely well founded and may reflect a failure to read the original opinion, in which Blackmun ranged widely across the language and history of obstetrics and gynecology. He delved into the field's earliest record by citing the most prominent ancient Greek authority, Soranus of Ephesus; he also seems to have read (or his law clerks did) some of the works of the 20th-century medical historian Ludwig Edelstein. Edelstein was a refugee from the Nazis who found a new home in Baltimore, taught for many years at Johns Hopkins, and is credited with the most thorough scholarly examination of early medical ethics and the Hippocratic Oath. It was Edelstein who argued persuasively, e.g., that the oath's proscription of abortion lay in its reliance on Pythagorean practices—likely never a majority standpoint in the ancient Mediterranean world—rather than on the broader teachings of Hippocratic and Galenic medicine.

Blackmun also makes reference to the (Roman Catholic) Canon Law tradition of fetal "animation" taking place between the 40th and the 80th days of gestation, in his words, "a view that persisted until the 19th century. There was otherwise little agreement about the precise time of formation or animation. There was agreement, however, that prior to this point the fetus was to be regarded as part of the mother and its destruction, therefore, was not homicide." Blackmun—and his clerks—did their historical homework. The justice himself even consulted with the Mayo Clinic during the prior summer (1972) to his opinion being completed and the court issuing its final ruling. What they show little sign of knowing, however, was the medical basis for relevant Canon Law tradition. That basis was not then, and still is not today, available in a published translation into any modern vernacular language.

To the side of intense religious and philosophical disagreements lie assertions that the justices delved into areas of medicine, and the history of medicine, where they had no firm footing nor the professional background to effect such a dramatic social change as "abortion on demand."

Post-Renaissance commentary on the intersections of law and medicine begins with a Sicilian physician who carried the very musical name of Fortunato Fedele ("Dr. Lucky Faithful"). Fedele was born in 1550 and was a student of, or was at least supervised by, the chief physician to the Hapsburg court in Palermo, G. F. Ingrassia. The latter had studied under Andreas Vesalius in Padua. With the support of a Franciscan house in Palermo, Fedele published the first edition of his *Libri Quatuor* [sic] *de Relationibus Medicorum*, "Four Books on the Reports of Physicians," in 1602. Two further editions were issued during the 17th century, again entirely in Latin as was then customary. Fedele's work runs to almost 400 pages in a quarto-sized edition. Copies are rare, and there is no record of it having ever been translated; yet Fedele's four books greatly influenced subsequent authorities, including the better-known Paolo Zacchia, chief physician to the papacy during the first half of the 17th century.


LUDWIG EDELSTEIN

Fedele's third book is wholly devoted to conception, gestation, and legitimacy, and his writing shows clear signs of his having often been summoned to court to give evidence—e.g., as to whether a young woman had deliberately tried to induce an abortion, then a capital crime in many states. Crucially for the history of this topic, Fedele uses a 40-day framework (*quadragesimo die*) for the point at which a (male) fetus can be said to have received the anima or "breath of life." In traditional Christian teachings that made the fetus a human and a child of God. Fedele describes an observable aborted fetus at that stage as being "half a finger length" in size (*semidigiti*), with discernible limbs and the beginnings of hands and feet. For a male fetus there was a *penis conspicuus* under which was a scrotum the size of a millet seed; the head was said to be the size of a hazelnut (*avellana*). Lacking any sort of modern technology to assert the point of viability, Fedele could only state that, due to church tradition and to a physiognomy bearing some similarity to a fully-formed human, the fetus should then be regarded as alive (*animatum*). If there was any sign of the mother having induced an abortion, then she should be referred to the courts for criminal examination; yet Fedele also advises caution for physicians and judges to "consider with uncertainty" (*in ambiguis statuere*) the mother up through the fourth month (*quatuor mensium*) since her presumed point of conception.

Given what is now known about fetal development, Fedele's 40-day observation may have referred to a period as long as 40 days since the mother experienced an interruption of her menstruation—in other words, closer to the 9th week of gestation and even near the end of a "first trimester" in *Roe v. Wade's* framework. But was that the only frame given by Justice Blackmun? In the first section of the lengthy opinion, during his exposition of the medical and legal background, Blackmun refers to "the normal 266-day gestation period" (exactly 38 weeks). He does later use the term "trimester" but not in this detailed exposition. It is instead nearer the end of the opinion, as he works towards the court's historic finding, that Blackmun states how "at the stage subsequent to approximately the end of the first trimester" the state may still regulate abortion; while at the "stage subsequent to viability" the state may *proscribe* abortion "in promoting its interest in the potentiality of human life."

Internal documents from Blackmun's law clerks indicate that he was informed how 24 weeks of gestation (well beyond the "quickening" stage referred to in 18th- and 19th- century medicine) was about the cut-off for fetal viability in the technology of the early 1970s: ergo, during the middle trimester if not near its end. Another memo now available to the pubic asserts that "from approximately 12 weeks to about 28" is when the state should or would reassert its right to intervene on behalf of the fetus. This memo was circulated among all the justices prior to their final opinions being published.

Subsequent cases decided by the U.S. Supreme Court, e.g., 1992's *Planned Parenthood v. Casey*, have dropped the "trimester" framework from its central position and replaced it with fetal viability. Technology forced a change in legal understanding along with medical and ethical. During the current (anno 2020) court docket, a case from Louisiana may further cut back the centrality of *Roe v. Wade*. In the future, this writer may even be able to add his own modest contribution to this debate by providing—finally—a modern-language version of the work of Fortunato Fedele, "Dr. Lucky Faithful." Fedele and other early-Modern physicians were attempting hundreds of years ago to improve our understanding of the territories crossed by medicine and the law while also advising caution—*in ambiguis statuere*—in our actions and judgments.

Wayne Millan has served for many years as consultant to the University of Maryland Historical Clinico-Pathological Conference. Since 2010, he has been a lecturer in classics at The George Washington University, and in collaboration with Dr. Victor Weedn of GWU, he is now at work on a first-ever modern translation of the Four Books on Evidence Given by Doctors *published in 1602. The* Four Books *("Libri Quatuor") were written in Latin by a Sicilian physician Fortunato Fedele who was the first known practitioner of forensic pathology.*

ALUMNUS
profile

Morton E. Smith, '60

By Sandra McKee

Morton Smith with wife Paula

Eyeing Something Meaningful

Morton E. Smith, '60, grew up in Baltimore, the son of an immigrant, who owned his own dry cleaning and tailoring shop on South Charles Street. As a teenager, Smith had no idea what he was going to do, but he realized soon enough his parents would not be able to afford college.

The now retired professor emeritus and associate dean emeritus at Washington University School of Medicine in St. Louis, reveals he considered art school, after graduating at age 16 from City College high school. If that had worked out, thousands of ophthalmology and pathology students would have missed out on an internationally recognized clinician and a gifted and renowned teacher.

"I graduated from City rather young," Smith remembers. "And I didn't know what I wanted to do. I always liked doing cartoons and sketches, so, I went to the Maryland Institute of Art. Within months, I realized I didn't like it at all. Then one day near the end of my first year, the dean of the school came to me and said, 'You're not serious about this, are you?' I got the message. And so, before he could say, 'You're out of here.' I quit. You won't find that on my CV."

No, you won't find that. But you will find 16 teacher of the year awards; a Washington University Founders Day Distinguished Faculty Award; the distinguished service award; the medical school's Samuel R. Goldstein Leadership Award in Medical Student Education; and two distinguished service teaching awards. He also received a distinguished alumnus award from the Washington University Eye Alumni.

During 43 academic years of teaching, it is estimated Smith taught more than 5,000 students and residents.

"My best memories are receiving the teaching awards from the students," Smith says. "That's the thing that made me feel what I was doing was kind of worthwhile.

"I've been able to do a lot of things at Wash U," Smith continues. "I've done research, teaching, and patient care and I've enjoyed it all. But teaching medical students is the best because I have a passion for education and those medical students are like sponges. If you're honest with them and you don't BS them, they're just all ears and all eyes. They just love being taught and it's very rewarding."

At 85, Smith enjoys looking back on his long career that continues to bring him joy, as he bumps into students nearly everywhere he goes. He often tells the story about being at an animal preserve while on vacation in Florida when a former student recognized him. "He turned to me and said, 'You wrote my dean's letter.'" Smith says. "I got the biggest kick out of that. It's such a thrill in the twilight years, knowing I've had an impact."

It wasn't easy to get here. On that CV Smith mentions, you won't see he worked for a year in his cousin's jewelry store, saving money so he could afford to go to the University of Maryland, College Park, which charged in-state students little or no tuition. And you won't see, that while at Maryland, he also worked part-time in the Union Memorial Hospital laboratory—it was there he got interested in pathology, an interest that later developed into his subspecialty, eye pathology.

That CV also won't tell you that during the two years he was out of school, he did some soul searching. "I realized I wanted to do something that was very meaningful and make something of myself," he says. "I figured one of the most respected professions was medicine."

He excelled at College Park and was accepted at Maryland. "I figured Maryland was the only school I could afford. If I wasn't accepted, I don't know what I would've done."

At Maryland, he discovered his passion for little surgeries, the kind that require fine work, like ear, nose and throat and ophthalmology. It also allowed him to practice medicine without "being in the operating room all day, every day."

In those days, medical students didn't have to pick their specialty during their senior year. They could wait until after graduation and make the decision during their internships.

Smith went to Denver for his internship and accomplished three things. He got out of Baltimore and so was able to introduce himself as Mort Smith and leave the Morty of his youth behind; he and his wife got to see a world beyond the Baltimore City limits, a travel burst that has continued for five -plus decades; and at Denver General Hospital, an affiliate of the University of Colorado Medical Center, Smith recognized ophthalmology as his calling.

"I got turned on by it," he says. "And when I applied for ophthalmology residency, I got into one of the most competitive programs in the United States here at Wash U."

Until two years ago, he was still writing pathology reports on ocular tissue samples at the school's medical center. But now, he has truly retired, though Wash U still provides him an office. "I come in here about twice a week," he says. "I pick up my mail, and then, I like to have lunch over at what we call the doctors' lounge, where all my old cronies like to have their lunch."

Asked how, in his working days, he escaped from his daily workload, Smith says there were always family vacations, movies, and a play at the St. Louis Repertory Theatre to go to with his wife of 61 years, Paula.

And then there was reading. "I always managed to have a book on my night table when I was working," he says. "I'd read two or three pages a night before I'd fall asleep, but I managed to get through a lot of books—fiction, mysteries. I like politics and American history. I like reading essays and sometimes a trashy novel."

Now, he is reading Jane Austen's *Pride and Prejudice*, "to find out why all the girls loved it," and working on two projects: a writing project he is keeping to himself; the other a family history, chronicling his mother, who was one of nine children, and his father, one of six, who emigrated from Russia at age 14.

"I must have many, many cousins," he says, happy at the idea of learning more.

"My best memories are receiving the teaching awards from the students. That's the thing that made me feel what I was doing was kind of worthwhile."

ALUMNUS
profile

Robert M. McLean, '88

By Sandra McKee

Maintaining the Doctor Identity

> I pledge I will not use the word 'provider' when referring to a physician, and further, I will encourage my colleagues to do the same.

Sometimes, it is what others see as insignificant that matters most. Just ask **Robert McLean, '88**.

During the past decade, physicians have been referred to more and more as "providers." Their patients are now clients or worse, consumers and customers. It's enough to drive the good doctor to distraction. "A physician," says McLean, who has spent the last year as president of the American College of Physicians (ACP), "isn't just providing some commodity." McLean is leading a charge to reclaim "doctors identity as physicians and what we really do for our patients." He is especially interested in doing that for those who practice internal medicine, as he does. In one of his monthly ACP messages, he puts it this way:

"Being a physician we have 'caring' relationships. Our identity is intertwined with these intensely personal and intimate relationships that are fundamentally different from all other types of relationships. Patients share things with us as physicians that they share with nobody else, including close family."

It's something he perceives as having been lost in the massive healthcare industry. When he was elected ACP president last April, he saw he had a platform to do something about it. When he stood to be announced as ACP's new president, he, somewhat jokingly, asked those assembled to take a simple pledge.

"I asked everyone in the room to stand, raise their right hand and say, 'I pledge I will not use the word 'provider' when referring to a physician, and further, I will encourage my colleagues to do the same.'"

McLean says, "The feedback was so positive. I went 'Wow! I've tapped into something here.'" Since then, he and others in the organization have asked other doctors to take the pledge.

"It's kind of become my signature," says McLean. "And I'm amazingly proud of that, because I think it states the goal, which is to remind physicians of who they are and what they do and to not let other labels demean that."

An attending physician at Yale-New Haven Hospital, and also a medical director of the Northeast Medical Group in New Haven, McLean turned 57 in January. He grew up in Potomac, Md., and went to Landon School in Bethesda. Then it was on to Williams College in Massachusetts, where he enjoyed a liberal arts experience, majored in chemistry, and met his wife Cathy, "who helps remind me there is more to life than medicine." They have two adult children, Jack and William, and are celebrating their 32nd wedding anniversary this spring.

By the time McLean was approaching graduation from Williams, he realized becoming a doctor provided a practical opportunity to merge science with humanity. At Maryland, that recognition continued, as he first encountered renowned professor **Theodore Woodward, '38**, teaching introduction to clinical practice.

"He was the person who influenced me the most," says McLean. "Dr. Woodward was the classical, William Osler-like figure in the department of medicine. "He taught how to interview patients, starting at the beginning of first year. Some of those large lectures with him interviewing a patient in front of 150 students still stick in my mind."

What also stuck was the value Woodward placed on the history of his profession and "the art of talking to patients and demonstrating empathy." So, it shouldn't be a surprise that McLean has gravitated toward making patient care better and helping physician colleagues fulfill their potential.

Among other subjects he has dealt with in his monthly ACP president's messages are: internists as team leaders; the importance of "The Pause" in determining a diagnosis and communicating with patients; the importance of caring; and the value of time in dealing with patients, developing relationships, thinking, and problem solving.

"Quality of care measurement and analysis has become a world in itself," he says. "But I think just the overall, how do you take care of people, what does it mean to be a physician needs a refocus. I think a lot about that bigger picture stuff Woodward embodied—as did the other professor at Maryland, who probably had the second most influence on me—**Frank Calia**, who was the vice-chair of medicine when I was a third-year student."

The time spent with Calia and Woodward—weekly teaching sessions that "were these wonderful, several-hour-long case presentation analyses"—taught McLean how to think and how to "take care of people in a very detailed way."

Years later, McLean discovered Calia was governor of the ACP Maryland chapter while he was there. "The internal medicine community cohesion began to resonate," McLean says. "It helps give a professional society like that a bit of credibility when one of your mentors has chosen to be active in it.

"A few years ago, as the ACP Board of Regents was participating in the yearly convocation ceremony, Dr. Calia happened to get one of the big awards. Greeting a mentor in that setting was wonderful."

McLean likes the connections he has come across between those impactful professors and himself. Another he recalls was his interest in a phrase he used in a recent talk about diagnostic thinking: "If you hear hoof beats, think horses, not zebras." He wondered who first coined the now well-known medical phrase. "I did an internet search," he says. "It was Dr. Theodore Woodward, from the mid-1950s. What a delightful surprise!"

As he comes to the end of his year as ACP president, McLean is not at a loss for things to do. He says his ACP duties have given him more appreciation for the role of organized medicine, the challenges in our healthcare system, and the importance of advocacy.

"I love doing that stuff," says McLean, who in 2006 earned what is now called the ACP Richard Neubauer Advocacy Award for efforts to implement a policy paper advocating the patient-centered medical home, which eventually worked its way into Medicare law in the mid-2000s.

"The award was nice, but making something happen in the public policy space was most gratifying," he says. "Really showing that a physician advocate, in the right place at the right time, can truly make a difference."

He still loves seeing patients, and he loves his work as an advocate, which will continue with the ACP even after his presidential term ends. "I love to be able to continue that mix into the future," McLean says. "But who knows what the future holds?"

> The time spent with Calia and Woodward—weekly teaching sessions that "were these wonderful, several-hour-long case presentation analyses"—taught McLean how to think and how to "take care of people in a very detailed way."

Celebrating and Inspiring Compassion

Robert S. Katz, '70, feels strongly that one of the keys to success for a doctor is to think of patients like family members, not just people with medical issues.

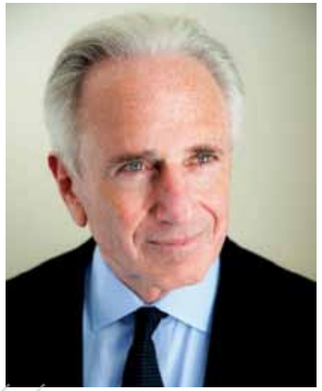
"We have to show them respect, make eye contact, and maybe use the computer a little less with these people, who trust you so much," says Katz, a leading rheumatologist and professor of medicine at Rush University Medical College and at Northwestern University's Feinberg School of Medicine.

Doing so can be challenging, he admits, but also rewarding. And he should know: his first patient, a man he treated for 40 years, just recently died. Developing such a close, caring relationship with patients, in spite of the difficult demands of modern medicine, Katz contends, is necessary not only for creating a successful practice, but also for feeling fulfilled in a medical career.

"It's more than seeing interesting cases or satisfying administrative dictates at your hospital," Katz says. "It's also the feeling of kindness, warmth, caring, and compassion that physicians are in a very honored place to experience."

Honoring that unique perspective is what inspired him a few years ago to make a gift to create the endowed Robert S. Katz, M.D. Award for Compassion Among Medical Students. The annual award recognizes medical students who demonstrate "strong potential to deliver care with respect for the dignity of the patient; combine humanism with clinical practice; and exhibit exceptional caring and compassion."

Although it may seem like every student should qualify for the award by following the standard of care, it's not that simple, says **Elizabeth Lamos, '07**, associate professor of medicine and assistant dean for student affairs, who participates in the selection for the Katz award as well as the school's humanism awards.



I hope I never lose that feeling of, 'I went into medicine because I care about people.' And I think that's an important part of medical school training that should be rewarded.

"While I hope that every student always approaches each patient interaction with compassion, there are many logistical things that may erode some of the small things that they do," says Lamos. "Patients can be very complex, medical care can be very complex, and the time that we get one-on-one with patients continues to shrink."

Therefore, she says, it's important to recognize students who have discovered on their own that, "to practice medicine with dignity and humility, always honoring the person in front of you, is one of a doctor's greatest skills." She hopes that by doing so they will be inspired to maintain their compassion beyond medical school and become an example for their peers.

Minna Leydorf, '18, the inaugural recipient of the award, believes compassion in medicine results in better care.

"Throughout my training, my desire to pursue a career working for the betterment of others has grown, along with an understanding of what it means to be a compassionate physician," says Leydorf, a pediatric resident at the medical center. "This was not only valuable in learning the concrete aspects of treating patients, but it also enabled my life to intersect with their lives, and I was able to see the impact that a trusting patient-physician relationship had on their medical care."

Leah Victoria Schecter, '19, the most recent recipient, also sees the reciprocal benefits of compassionate care.

"Compassion is something that I have always identified as important, but in practice it doesn't always seem as important as we want it to be," she admits. "When I've made time to get to know patients beyond the surface, I have found medicine to be the most rewarding. And I truly think it ensures a higher quality of care for our patients."

And that's exactly the outcome Katz was seeking when he decided to create a compassion award for students at his alma mater.

"All of us have dreams, and Maryland helped me accomplish my dream to become a physician and to try to make other people's lives better," he says. "I hope I never lose that feeling of, 'I went into medicine because I care about people.' And I think that's an important part of medical school training that should be rewarded."

For more information about ways you can help support the future of medicine, please contact Wayne Hobik at (410) 706-1925 or whobik@som.umaryland.edu.

Managing Money

Be Aware of Your Impulses—Especially in Volatile Markets

We're hardwired to speculate, but it may not be the best investment strategy. Here's how to make good decisions, even as markets move rapidly.

Key Takeaways:

- Especially during times of uncertainty, humans are hardwired to speculate. Our brains are designed to test out ideas and either confirm that we're right or understand that we're wrong, so we can adjust our thinking.
- To battle the speculative impulses that can jeopardize your investing plans, seek out information that disproves your ideas.
- Make the best use of expert advice, and don't try to time the markets.

Many humans love to speculate on just about anything—regardless of their knowledge level. I was reflecting on this fact recently as I browsed the newsstands at the airport. Magazines and newspapers speculated on the future of the COVID-19 outbreak: How many more people would become infected? What impact will the virus have on the economic outlook? And let's not forget about the elections. Or the recent plunge in oil prices. Given the uncertainty surrounding these topics, it was interesting to see how inconsistent the views were across publications. As a financial professional, I found myself concerned that the speculation in the news stories might cause people to act in a way that is inconsistent with their true financial and investment goals.

Speculation is a form of hypothesis testing, and humans are natural hypothesis testers. We like to make predictions so that we can see if we understand our environment as well as we think we do. If we are wrong, it allows us to revise our beliefs and adapt. If we're right, it allows us to feel confident that the understanding we have will lead us to productive future outcomes.[1] However, if we speculate with our investments, we must live with the outcomes in a very real way.

Here are three tips to avoid being drawn into a speculative mindset, especially in challenging political and market environments.

1. Seek out evidence that contradicts your viewpoint.
   Research tells us that people like to find confirming evidence for their ideas. However, it's disconfirming evidence—information that opposes your perspective—that may lead to better decision making. Challenging your ideas helps you acknowledge what you truly know—and what you don't—before you act.[2]
2. Make the best use of expert advice.
   Research that I conducted with my academic advisor, Craig McKenzie, showed that experts and novices were equally overconfident in their decision making. Experts did have one advantage, though: The wrong answers they gave were closer to the truth. Gather a mix of expert advice and think critically about what you learn.[3]
3. Draw on the power of time in the markets and avoid market timing.

The term "market speculation" is often used synonymously with short-term market timing—a very difficult exercise, even for investment professionals. Instead, identify your investment time horizon (how long you want to be invested for) and whether or not you have the need and ability to take risk. Make sure that any investing ideas you're considering line up with your time horizon and capacity for risk. And if they don't, think hard about how to get your investment portfolio to where you want it to be.

J.P.Morgan

Scott D. Canuel, CFA, CFP©
J.P. Morgan Private Bank
scott.d.canuel@jpmorgan.com

Disclosures:
The information expressed is being provided for informational and educational purposes only. It is not intended to provide specific advice or recommendations for any individual. You should carefully consider your needs and objectives before making any decisions. For specific guidance on how this information should be applied to your situation, you should consult your qualified representative. The information provided may inform you of certain products and services offered by J.P. Morgan's wealth management businesses, part of JPMorgan Chase & Co. ("JPM"). The views and strategies described in the material may not be suitable for all investors and are subject to risks. This material is confidential and intended for your personal use. It should not be circulated to or used by any other person, or duplicated for non-personal use, without our permission.

Footnotes:

[1] McKenzie. Hypothesis testing and evaluation. http://psy2.ucsd.edu/~mckenzie/McKenzieHTest.pdf

[2] Nickerson. Confirmation bias: A ubiquitous phenomenon in many guises. http://psy2.ucsd.edu/~mckenzie/nickersonConfirmationBias.pdf

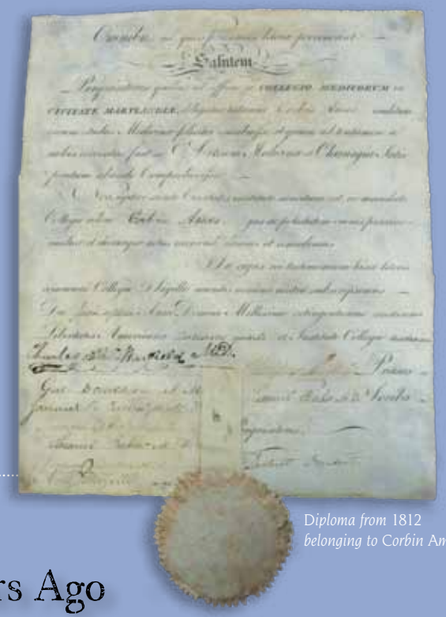
[3] McKenzie, Liersch and Yaniv. Overconfidence in expert interval estimates: What does expertise buy you? http://pages.ucsd.edu/~mckenzie/McKenzieetal2008OBHDP.pdf

Recollections

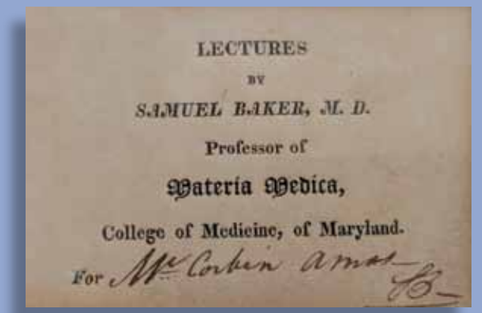
A look back at America's fifth oldest medical school and its illustrious alumni

170 Years Ago

In 1850, Maryland's school year was running from mid-October to early March, one of the longest in the country among medical colleges. Admission to lectures and lab sessions was $20 per subject and the final exam at the end of the second year of this two-year MD program cost an additional $20. Faculty examined candidates and a majority vote was required to pass.



Diploma from 1812 belonging to Corbin Amos



115 Years Ago

In 1905, professors began depositing lecture fees in a central fund and earned salaries rather than selling tickets directly to students (as had been the case since 1807). This was an attempt to mitigate the ongoing financial crisis at the school created by the proprietary system.

25 Years Ago

In 1995, the Frenkil Building opened on Eutaw Street. It was donated by **James Frenkil**, class of 1937, and wife Carolyn to house several ambulatory services including otorhinolaryngology and neurology practices, general medicine, and the infectious disease clinic. Frenkil's specialty was occupational medicine.

Student Auction Nets nets $16K for Back on My Feet Baltimore

Second-year auction organizers Dahlia Kronfli, Malina Howard, Danny Howard of Back on My Feet, Rebecca Cox, Megan Spurrell, and Michael Sullivan

For the 14th consecutive year the second-year medical school class organized a student auction to benefit a local non-profit organization. The charity of choice this year was the local chapter of Back on My Feet, devoted to combatting homelessness while promoting health and wellness.

This year's event, held at the Southern Management Corporation Campus Center on February 20, included live and silent auctions and raffles. Items ranged from dinners with faculty members to gift certificates for local restaurants/businesses to artwork created by students. More than $16,000 was raised.

Back on My Feet Baltimore notes that $1 invested in the organization returns nearly $2.50 to the local community through increased economic output from employment and reduction in costs for shelter, medical services, incarceration, and addiction treatment.

classnotes

1950s

1950: Harry H. Bleecker, Jr., of San Pedro, Calif., is looking forward to the 70th reunion in May. ❖ **Joseph S. McLaughlin** of Baltimore reports that wife Irene passed away on February 28. **1953: Rafael Longo-Cordero** is fully retired and splits his time living in Newnan, Ga., and Puerto Rico. ❖ **George H. Miller** of Baltimore is enjoying retirement. **1957: Joseph C. Laughlin** recently moved from Montecito, Calif., to San Juan Capistrano. **1958: William J. Hicken** of Timonium, Md., retired as a pathologist at St. Agnes Hospital after 53 years including 38 years as chairman. He is enjoying life with family.

1960s

1960: Burton J. Goldstein of Aventura, Fla., professor emeritus of psychiatry, pharmacology and public health science at the University of Miami Miller School of Medicine, recently retired from the faculty after 50 years of service. He is enjoying retirement, spending time travelling with wife Linda. ❖ **Martha E. Stauffer** of West Lebanon, N.H., continues attending mortality and morbidity conferences at two local hospitals, plays lots of tennis, and enjoys her camp in the Adirondacks. She looks forward to the 60th reunion in spring. ❖ **Theodore Zanker** of Cheshire, Conn., recently retired but remains active in advocacy, serving as chair of the Connecticut State Medical Society delegation to the AMA and as principal investigator of FDA approved research of cannabinoid in palliative care. **1965: Terren M. Himelfarb** of Baltimore proudly reports that his oldest granddaughter is attending Cornell University and his youngest is in the first grade. **1961: Robert J. Myerburg** of Miami continues on the full-time faculty at the University of Miami Miller School of Medicine, passing over the 50-year milestone on January 1. **1966: Charles H. Classen, Jr.**, of Kinston, N.C., continues doing outpatient surgery and teaching family practice at East Carolina University. He recently visited with classmate **Richard Glass** and wife Donna. ❖ **Stephen F. Gordon** of Stone Mountain, Ga., reports that daughter Penny Gordon Larson, MD, is associate dean for research at the University of North Carolina. ❖ **Stephen Machiz** of Fort Myers, Fla., received the 2019 Frank Haskell Humanitarian Award from Lee Health Foundation for his leadership in establishing the Southwest Florida Children's Charities Inc. The nonprofit organization has donated more than $19 million since its creation in 2008. ❖ **William T. Mason** of Salisbury, Md., reports that he retired from orthopaedic surgery in 2018 but not from life. **1967: Joseph S. Gimbel** of Paradise Valley, Ariz., founded the Arizona Research Center in 1997. The organization has participated in more than 1000 clinical trials and has authored over 100 articles in peer-reviewed journals.

1970s

1970: Dennis J. Hurwitz and wife Linda of Pittsburgh, recently celebrated their 50th wedding anniversary. **1971: Peter Hartmann** of York, Pa., continues working two half days each week at York College where he sees students referred to him for mental health concerns. ❖ **Michael C. Maloney** of Cincinnati continues working four days per week in a private outpatient psychiatry group. He looks forward to the 50th reunion in spring 2021. **1972: Jerald P. Waldman** of Laguna Beach, Calif., has been retired for two years and enjoying life after a gratifying 40 years in practice. **1974: Elise W. Van der Jagt** of Pittsford, N.Y., is chief medical officer for Golisano Children's Hospital Regional Health Operations. Retirement is not in view with so many interesting things in which to participate. The family now includes nine grandchildren. ❖ **David Zisow** of Baltimore continues teaching minimally invasive GYN surgery methods and techniques since retiring in 2015. He mentors one day a week at a local elementary school, and while he is no longer able to play baseball, he reports that he's gone to the "dark" side and is a professional high school umpire. Zisow and wife Marcie have 10 healthy grandchildren who give them great joy. **1975: Karl Diehn** and wife Kathy of Baltimore report that daughter Megan is a nurse practitioner at GBMC Texas Station; son Karl is chef at Dylan's Oyster Cellar in Hampden; daughter **Kate, '13**, is a family practitioner at GBMC in Hunt Valley; and son Kevin is getting his MBA through INSEAD in Fontainebleau, France. ❖ **Patricia Rose Falcao** of Needham, Mass., reports that daughter Alex gave birth to Eve Magnolia in November 2019. **1976: Martin Sheridan** of Baltimore is section chief for pulmonary medicine at MedStar Franklin Square Medical Center and adjunct professor for allied health at the Community College of Baltimore County. Daughter **Nikki Alworth, '09**, works in the emergency medicine department at the University of Maryland St. Joseph's Medical Center. and has four children. ❖ **Joseph W. Zebley, III**, has retired from his family medicine practice in Baltimore City after 40 years and moved to the family farm in Cecil County. **1977: Dahlia R. Hirsch** and **Barry A. Wohl** of Abingdon, Md., recently celebrated the arrival of their first grandchild. They are also very proud of their daughter's successful podcast R*ad Scientist*. **1978: Randolph G. Whipps** of Towson, Md., retired from the medical school in 2018. In semi-retirement he serves as medical director of the LifeMed Institute doing preventative cardiology and wellness. **1979: Timothy J. Low** of Silver Spring, Md., reports that son Steven and his wife Kim gave birth to their second son, Jonah, in October 2019. After obtaining a degree of Doctor of Physical Therapy from Maryland, Steven authored O*vercoming Gravity*, 2nd edition and O*vercoming Poor Posture*. His next book, O*vercoming Tendonitis*, is expected to be published soon.

1980s

1980: James P. Richardson of Ellicott City, Md., is hoping for a terrific turnout for the 40th reunion in May. **1983: Marc B. Applestein** of Columbia, Md., is semi-retired, working part-time for the division of urology at the Veterans Hospital in Baltimore. ❖ **Monica A. Buescher** of Towson, Md., continues practicing gynecology after retiring from obstetrics last July. She is interim chief of the department of OB-GYN at the University of Maryland St. Joseph's Medical Center. ❖ **George Daneker** joined SSM Health in St. Louis as vice president and medical director for oncology services. ❖ **Michael K. Moore** and wife Kyra of Morehead City, N.C., report that daughter **Michelle** will be graduating in spring from medical school at Maryland. **1985: Nicholas B. Argento** of Columbia, Md., reports that he had the pleasure of meeting Mark Andrews, a tight end for the Baltimore Ravens who has lived with type I diabetes since age nine and is setting records despite his condition. Argento reports that he, himself, has lived with it for 52 years and is still going strong. ❖ **Michael Hallowell** of Sewell, N.J., continues bicycling around the world, most recently in Poland which he reports was a remarkable journey. **1986: Lisa A. Scheinin** of Redondo Beach, Calif., earned a black belt in Hapkido, and now has blackbelts in two disciplines (Taekwondo). She adds that she has now ridden on more than 2,300 roller coasters. **1987: Charles P. Fitch** of Clarksville, Tenn., will be retiring from clinical ophthalmology in June. He looks forward to part-time teaching at his local university, painting, and traveling longer than one week at time. ❖ **Michael P. Flanagan** of Matilda, Pa., was awarded a Harvard Macy Institute Art Museum-Based Health Professionals Education Fellowship for 2020.

1990s

1990: Jerry Ann Hunter of Columbia, Md., is working for the state after retiring from the practice of internal medicine. **1992: Morton R. Rinder** of Saint Louis is director of the Stem I Program at St. Luke's Hospital, working with the state program to improve care throughout the Missouri hospital program. ❖ **Caroline Sherbourne** of Alamo, Calif., is a radiologist with The Permanente Medical Group where husband Charles is a vascular surgeon. They have three sons. **1997: Daniel C. Farber** of Wynnewood, Pa., is orthopaedic program residency director at Penn State University. Daughter Hannah, age 12, enjoys soccer while son Nate, age five, is all about Monster trucks. Wife Jessica continues to work and teach at CHOP and Penn while holding the family together. He encourages classmates in Philadelphia to contact him. ❖ **David A. Hinkle** of Powell, Ohio, is system medical chief for movement disorders at OhioHealth in Columbus. **1999: Mallory Williams** of Toledo, Ohio, is co-chair of the National Medical Association Gun Task Force and chair-elect of the surgical section.

2000s

2002: Steven Ingle is in year 12 of his private gastroenterology practice in Anchorage. To his disbelief, his daughter Aubrey will be starting high school in the fall. **2004: Robert Davidson** of Baltimore reports that he remains in close contact with classmates **Anis Frayha, Brian Edwards**, and **Mark Davino**. He and wife **Ashley, '06**, recently celebrated 10 years of marriage. **2007: Habeeba Park** was appointed vice chair for the Maryland Committee on Trauma and was named State Stop the Bleed Champion for Maryland by the American College of Surgeons Committee on Trauma. She was also named lead for the National Stop the Bleed Dissemination and Outreach Workgroup.

2010s

2010: Ijeoma Akunyili of Old Greenwich, Conn., is a system medical director for TeamHealth Northeast Group, enjoying active EM practice and spending time with two teenage children. ❖ **Sanam Razeghi** of Hummelstown, Pa., is an attending and assistant professor, division of gastroenterology and hepatology, at Penn State Hershey Medical Center. She was recipient of the GI fellows' 2018 teacher of the year award. Razeghi enjoys domestic and international travel, most recently to Iceland, Morocco, and Spain. She also participates in a physician writers' group with hopes of pending publication, and is looking forward to the upcoming 10-year reunion in spring. **2017: Timothy Ryan** of Los Angeles will serve as chief resident in neurology next year and then pursuing a fellowship in clinical neurophysiology at Cedars-Sinai.

Our Medical Alumni Association

Mission: The Medical Alumni Association of the University of Maryland, Inc., in continuous operation since 1875, is an independent charitable organization dedicated to supporting the University of Maryland School of Medicine and Davidge Hall.

Board Structure: The MAA is governed by a board consisting of five officers and nine board members. Each year more than 100 alumni participate on its seven standing committees and special anniversary class reunion committees.

Membership: Annual dues are $85. Dues are complimentary the first four years after graduation and can be extended until the graduate has completed training. Dues are waived for members reaching their 50th graduation anniversary or have turned 70 years of age. Revenues support salaries for two full-time and two part-time employees, as well as general office expenses to maintain the alumni data base, produce the quarterly B*ulletin* magazine, stage social events for alumni and students, administer a revolving student loan fund, and oversee conservation of Davidge Hall and maintain its museum.

Annual Fund: The association administers the annual fund on behalf of the medical school. Gift revenues support student loans and scholarships, lectureships, professorships, capital projects—including Davidge Hall conservation—plus direct support to departments for special projects and unrestricted support to the dean.

The Morton M. Krieger, MD, Medical Alumni Center is located on the second floor of Davidge Hall, located at 522 W. Lombard Street, Baltimore, MD, 21201-1636, telephone 410.706.7454, fax 410.706.3658, website *www.medicalalumni.org*, and email *maa@medalumni.umaryland.edu*.

IN MEMORIAM

Duane L. Greenfield, '46
Urology
Sioux Falls, S.D.
September 17, 2019

After graduation Dr. Greenfield served as a flight surgeon and was stationed in Germany. Upon discharge he completed internship and residency training at Cook County Hospital in Chicago, and shortly thereafter began a private urology practice in Sioux Falls which lasted 34 years. He enjoyed the outdoors, in particular hunting, fishing, and travel. Greenfield was preceded in death by wife Mary Louise and is survived by six children, 14 grandchildren, and six great-grandchildren.

Ernest S. Wolf, '50
Psychiatry
Winnetka, Ill.
August 12, 2018

Jewish Hospital in Cincinnati was the location of Dr. Wolf's internship, followed by residency training at Cincinnati General Hospital. He remained there for a fellowship in psychosomatic medicine and received additional training at the Institute for Psychoanalysis in Chicago. Wolf maintained a private practice in Chicago and served as an assistant professor in psychiatry at Northwestern University Medical School. He enjoyed classical music, stamp collecting, travel, literature, and writing.

Bernard J. Byrnes, '53
Internal Medicine
Parkville, Md.
January 10, 2020

Prior to medical school, Dr. Byrnes served in the U.S. Navy during World War II, assigned to the U.S.S. Massachusetts. Upon completion of medical school, he interned and received residency training at Bon Secours and opened a private practice in Baltimore City in 1955. In addition to his practice, Byrnes worked part-time as a staff physician at Western Electric Baltimore Works. He retired from private practice in 1970 when he shifted to full-time at Western Electric where he was named medical director in 1974. Brynes retired in 1982. Preceded in death by wife Ethel and son Michael, Brynes is survived by four children, seven grandchildren, and eight great-grandchildren.

John W. Metcalf, '53
OB/GYN
Steubenville, Ohio
November 21, 2019

Dr. Metcalf served in the U.S. Navy beginning after graduation, interning at the U.S. Naval Hospital in San Diego. Afterwards he was assigned to the Fleet Marine Force in Japan and Korea in the waning years of the Korean War. He returned to Camp Pendleton, assigned to duty in the OB department. Upon discharge with the rank of lieutenant commander, Metcalf completed residency training in OB/GYN at Ohio State University and began private practice. He served on the staffs of Ohio Valley Hospital, Gill Memorial Hospital, Weirton Medical Center, and Magee Hospital in Pittsburgh, and St. John's Hospital where he was named inaugural chair of the department. During his career, Metcalf was dedicated to the medically indigent. In 1971, he founded the Family Planning Association which provide care to low income and uninsured women, and he volunteered monthly at the Fourth Street Health Center. Metcalf served as fifth ward councilman for Steubenville as well as Jefferson County coroner. He retired in July 2019 at age 90 after receiving numerous awards for his service to the community. He built experimental airplanes and enjoyed flying. Metcalf was a member of the John Beale Davidge Alliance Silver Circle, the medical school's society for major donors. Preceded in death by son David, he is survived by wife Theresa, six children including Lisa Canada, '96, 26 grandchildren, and 26 great-grandchildren.

Walter M. Shaw, '57
Surgery
Bonita, Calif.
October 30, 2019

Dr. Shaw spent one year with the Youngstown Hospital Association and then completed training in general surgery at the University of Miami. For 50 years he practiced privately in Chula Vista, Florida, and in retirement served as an ex-POW physician. Shaw was a member of the John Beale Davidge Alliance 1807 Circle, the highest recognition level for major donors to the medical school. He enjoyed watching football and his passion was playing golf. Survivors include wife Maria, two daughters, one stepson, and seven grandchildren.

Richard C. Lang, '59
Pediatrics and Adolescent Medicine
Westminster, Md.
January 18, 2020

The University of Colorado Medical Center was the location of Dr. Lang's internship, followed by pediatrics residency training at Maryland and Mercy Hospital. From 1962 to 1964, he was chief of pediatrics with the U.S. Air Force stationed in Plattsburgh, N.Y., where he received the Air Force Commendation Medal for Meritorious Service. Lang practice pediatrics in Towson from 1964 to 1999 but in 1970 received training in adolescent psychiatry at Johns Hopkins and from 1971 to 1973 was a physician there in the outpatient psychiatric department. He also served on the staffs at GBMC, St. Joseph's Medical Center, Union Memorial Hospital, and Maryland. Lang loved the west where he worked several summers for the U.S. Forest Service as a lookout at Willamette National Forest, Oregon, and Yellowstone National Park. He also enjoyed golf, family, and travel. Survivors include wife Carolyn, two daughters, and two grandchildren.

Allen R. Myers, '60
Rheumatology
Ardmore, Pa.
January 15, 2020

Upon graduation, Dr. Myers remained at Maryland for internship and completed residency training at the University of Michigan. From 1966 to 1969, he pursued fellowship training in rheumatology before joining the faculty at the University of Pennsylvania as an associate professor of medicine. He remained at Penn until 1978 where for six years he served as chief of rheumatology. Myers joined the faculty at Temple University in 1978, serving as deputy chair of the department and director of the residency training program until 1986. He was elevated to dean 1991 to 1996. He was the author of five textbooks and served as president of the College of Physicians of Philadelphia for two years. Myers was a member of Maryland's John Beale Davidge Alliance Elm Society which recognizes the school's major donors. Survivors include wife Ellen, three sons, and five grandchildren.

John W. Wallace, '60
Anesthesiology
Medina, Ohio
February 19, 2020

James R. Appleton, '61
ENT, Plastic Surgery & Family Medicine
Mooresville, N.C.
January 13, 2020

Dr. Appleton interned at Albany Medical Center in New York and received residency training in otolaryngology at Upstate Medical Center in Syracuse. This was followed by two years in the U.S. Army stationed at Brooke Army Hospital in San Antonio and the 7th Field Hospital in Tokyo, Japan. From 1968 to 1973, he practiced otolaryngology in Glen Burnie, Md. Appleton received additional training in plastic surgery at Buffalo General Hospital and Roswell Park Memorial and then returned to Glen Burnie to add plastic surgery to his otolaryngology practice. Academic appointments included assistant clinical professor at George Washington University Hospital and associate professor at Maryland. In 2004, he relocated to Santa Fe, N.M., then to Debary, Fla., and finally to Mooresville, N.C., where he practiced family medicine before retirement. While living in Baltimore, Appleton volunteered for the alumni association's annual alumni phonathon and was a member of the John Beale Davidge Alliance Elm Society, the school's society for major donors. Survivors include wife Linda, three children including daughter Rebecca, '96, and several grandchildren.

Osmar P. Steinwald, Jr., '62
Plastic Surgery
Hobe Sound, Fla.
January 17, 2020

Presbyterian St. Luke's Hospital in Chicago was the location of Dr. Steinwald's training. From 1971 to 1975, he was an instructor in plastic surgery at Maryland and Johns Hopkins. From 1975 until 2012, Steinwald was in private practice at Lake Forest Hospital in Chicago where he served as chief of the medical staff. He was a past president of the Chicago Society of Plastic Surgeons. In retirement Steinwald was an Interplast volunteer and was later associated with Volunteers in Medicine in Florida. Survivors include wife Nancy, three children, two step-children, and 11 grandchildren.

Brian J. Baldwin, '65
Cardiovascular Diseases
Dallas
October 30, 2019

Dr. Baldwin interned and received residency training at Maryland after graduation, followed by a fellowship at Emory University/Grady Memorial Hospital in Atlanta. During his service with the U.S. Air Force, he practiced cardiology at Wilford Hall USAF Hospital in San Antonio, rising to the rank of major. Upon discharge in 1972, Baldwin began a cardiology practice at St. Paul Hospital in Dallas where he served as chief of staff and helped establish a heart and lung transplant program. He joined UT Southwestern Medical Center in 2015 where he remained as clinical professor of medicine until 2019. Baldwin was a past president of the Dallas division of the American Heart Association and also served as team physician to the Jesuit College Preparatory School football team. He loved to read and was an avid gardener. Survivors include wife Peggy, four children, 11 grandchildren, and three great-grandchildren.

Dean H. Griffin, '66
Family Medicine
Westminster, Md.
February 1, 2020

Dr. Griffin practiced family medicine in Carroll County, Md., for nearly 40 years. He was on the staff at Carroll County General Hospital, physician for the football teams of Westminster, South Carroll, and Liberty High Schools, and physician for the Volunteer Firemen of Carroll County. Griffin was a past president of the Maryland Academy of Family Physicians and past delegate to the American Academy of Family Physicians. From 1984 to 2000, he served on the board of directors for Union National Bank. Griffin was a member of the John Beale Davidge Alliance Elm Society, the medical school's society for major donors. He enjoyed tennis, skiing, cycling, fishing, travel, and reading. Survivors include wife Etta Ray, two children, and two grandchildren.

Albert L. Daw, '68
Surgery
Mechanicsville, Va.
December 13, 2019

Dr. Daw was a surgeon in both Maryland and North Carolina before settling in South Hill, Va., where he worked for Southside Surgical Associates until retirement. In retirement he taught nursing at a community college in Alberta and later at J.S. Reynolds Community College in Mechanicsville. Daw published two books and enjoyed travel, camping, and hiking. Survivors include wife Margaret and children.

Frank A. Kulik, '68
Psychiatry
Scottsdale, Ariz.
December 17, 2019

Dr. Kulik practiced psychiatry in Jackson, Miss., and Scottsdale, Ariz. He was a member of the Elm Society of the John Beale Davidge Alliance, Maryland's society for major donors. Kulik is survived by wife Alcides.

Graham Gilmer, III, '69
Otolaryngology
Lynchburg, Va.
January 17, 2020

The University of Oregon Clinics was the location of Dr. Gilmer's internship, followed by seven years with the U.S. Navy where he

IN MEMORIAM

Memorial gifts are warmly received by:
Medical Alumni Association of the University of Maryland, Inc.
522 West Lombard Street
Baltimore, Maryland, 21201-1636,
or for more information simply call 410.706.7454.

IN MEMORIAM

served as a flight surgeon and received residency training in otolaryngology at Naval Hospitals-San Diego. During his last year of military service he was head of ENT at Camp Le Juene. From 1978 until retirement in 2012, Gilmer was in private practice in Lynchburg and served as president of the medical staff of his local hospital. He also volunteered time with Meals on Wheels, Habitat for Humanity, and the Lynchburg Tree Stewards. He enjoyed photography, bonsai, woodworking, birding, duplicate bridge, and golf. Gilmer was a member of the John Beale Davidge Alliance Elm Society, the school's society for major donors. Survivors include wife Helen, three sons, and eight grandchildren.

John R. Horn, '72
Radiology
Temple, Tex.
November 19, 2019

Dr. Horn was a naval flight surgeon who was later board certified in family practice and radiology.

Marjorie A. Voith, '72
Internal Medicine & Oncology
Riva, Md.
November 27, 2019

After internship and residency training in internal medicine at Maryland General Hospital and Maryland, respectively, Dr. Voith received a fellowship in oncology at the Baltimore Cancer Research Center. Afterwards she joined the U.S. Air Force where she rose to the rank of Major. She was named chief of medical oncology at Malcolm Grow Hospital at Andrews Air Force Base and also served as flight surgeon for the U.S. House Foreign Relations Committee, accompanying members on travel. Voith retired from active duty in 1983 but later served as an inactive reserve and as a member of the U.S. Coast Guard Auxiliary Flotilla in Annapolis. She practiced privately for more than 30 years as an internist/oncologist in Chevy Chase and Riva. Voith received the U.S. Air Force Commendation Medal in 1982 and the distinguished service award from the Medical Society of the District of Columbia. She was a talented fastpitch softball player, selected to play in the Pan American softball games and winning election to the Mid-Atlantic Softball Association's Fastpitch Hall of Fame in 1992. She also enjoyed soccer, flag football, and golf. She is survived by spouse Carol Sisco.

Carolyn M. Apple, '90
Emergency Medicine
Magnolia, Del.
January 24, 2020

Dr. Apple completed residency training in internal medicine at the University of Virginia and in emergency medicine at York Hospital in Pennsylvania. She returned to her native Delmarva Peninsula where she practiced emergency medicine in several locations, her last being as founder of Eden Hill Express Care in Dover. In retirement she provided volunteer medical care in underserved areas of the world and also responding to natural disasters. These areas included Central America, Haiti and, in particular, Tanzania where she was devoted to working with the Foundation of African Medicine and Education. Apple established a scholarship at Maryland and was a member of the 1807 Circle of the John Beale Davidge Alliance, the school's society for major donors. She was preceded in death by one brother and is survived by another.

Faculty

Charles Shubin, MD
Pediatrics
Pikesville, Md.
December 28, 2019

Dr. Shubin was an associate professor of pediatrics at Maryland who focused on child abuse and neglect and safety. Born in Philadelphia, he attended Lehigh University for his BS in biology and received his MD from Temple University. Abington Memorial was the location of his internship, followed by residency training at St. Christopher Hospital for Children in Philadelphia. In addition to his appointment at Maryland, Shubin was an assistant professor at Johns Hopkins who joined Mercy Medical Center in 1985. Appointments included chair of the Maryland Governor's Task Force on Child Abuse and Neglect and founding member of the Baltimore City Child Fatality Review Team. At Maryland, Shubin sat on the child protection team, studying the causes and etiology of abuse and potential solutions. Earlier in his career he served as chief of pediatrics for the U.S. Public Health Service. Shubin enjoyed attending the Baltimore Symphony Orchestra. Survivors include wife Susan, two children, and four grandchildren.

Dues-paying members of the Medical Alumni Association are eligible to view an **extensive library** of online offerings. These include:

- 45 talks given at Medical Grands Rounds over the past 2 two years
- MAA Historical Clinicopathological Conferences presented during Reunion
- 24-segment History of Medicine class taught by Philip A. Mackowiak, '70, offered as an elective at Maryland and an accredited course at UM College Park
- 11 Historical lectures by Theodore E. Woodward, '38;
- 25 Cardiology lectures presented by Gary D. Plotnick, '66

There are additional **historical lectures** such as:

- History of Shock Trauma by Thomas Scalea, MD
- Nuremberg Medical Trials by Edward Glaser
- History of Provident Hospital by Elijah Saunders, '60

Visit the MAA website to register: medicalalumni.org

First to Treat Adult Neurodevelopmental Disorders

Joint Partner Venture Provides Much-Needed Resources and Behavioral Treatment for Marylanders

The University of Maryland School of Medicine (UMSOM), University of Maryland Medical Center (UMMC), and the Tuberous Sclerosis Alliance (TS Alliance) have joined together to launch the first centers in Maryland to specifically treat adults with neurodevelopmental disabilities.

The two centers — **University of Maryland Center for Adults with Neurodevelopmental Disabilities (UMCAND)** and the **Tuberous Sclerosis Complex Center of Maryland (TSCCM)** — will provide clinical evaluation, care, and treatment for adults with neurodevelopmental conditions such as autism, intellectual disability, epilepsy and tuberous sclerosis complex (TSC).

Using these two centers as portals for discovery, research will aim to:

- identify genetic causes of autism, epilepsy, and intellectual disability
- better understand and identify environmental risks
- use precision-medicine to develop new therapies

With Maryland having the second-highest rate of autism in the country, these new centers will support a critical need for all patients.

Peter Crino, MD, PhD, Professor and Chair of the Department of Neurology with patient

Pushing the boundaries of neurological care

Better options for all patients

UNIVERSITY of MARYLAND MEDICAL CENTER

Learn more at umm.edu/neurodevelopmental

Medical Alumni Association
OF THE UNIVERSITY OF MARYLAND, INC.

Morton M. Krieger, MD, Medical Alumni Center
522 West Lombard Street
Baltimore, MD 21201-1636
www.medicalalumni.org

Nonprofit
U.S. Postage
PAID
Baltimore, MD
Permit No. 3800

Return Service Requested

Bulletin

Spring 2020

We regret that the 145th Medical Alumni Reunion has been **CANCELED** *due to the national health crisis.*