



ANNUAL REPORT 2022

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MOREHOUSE SCHOOL OF MEDICINE

WOVEN



WOVEN

A single thread is fragile and easy to break,
But many, woven together, gain strength.

As more and more threads are
Added, representing individuals, their
Expertise, and their passions,

They become a tapestry,

Depicting a community that is focused,
Resilient, and committed to service.

Some threads come from a short
Distance, while others are from far away.

Yet, all have a purpose.

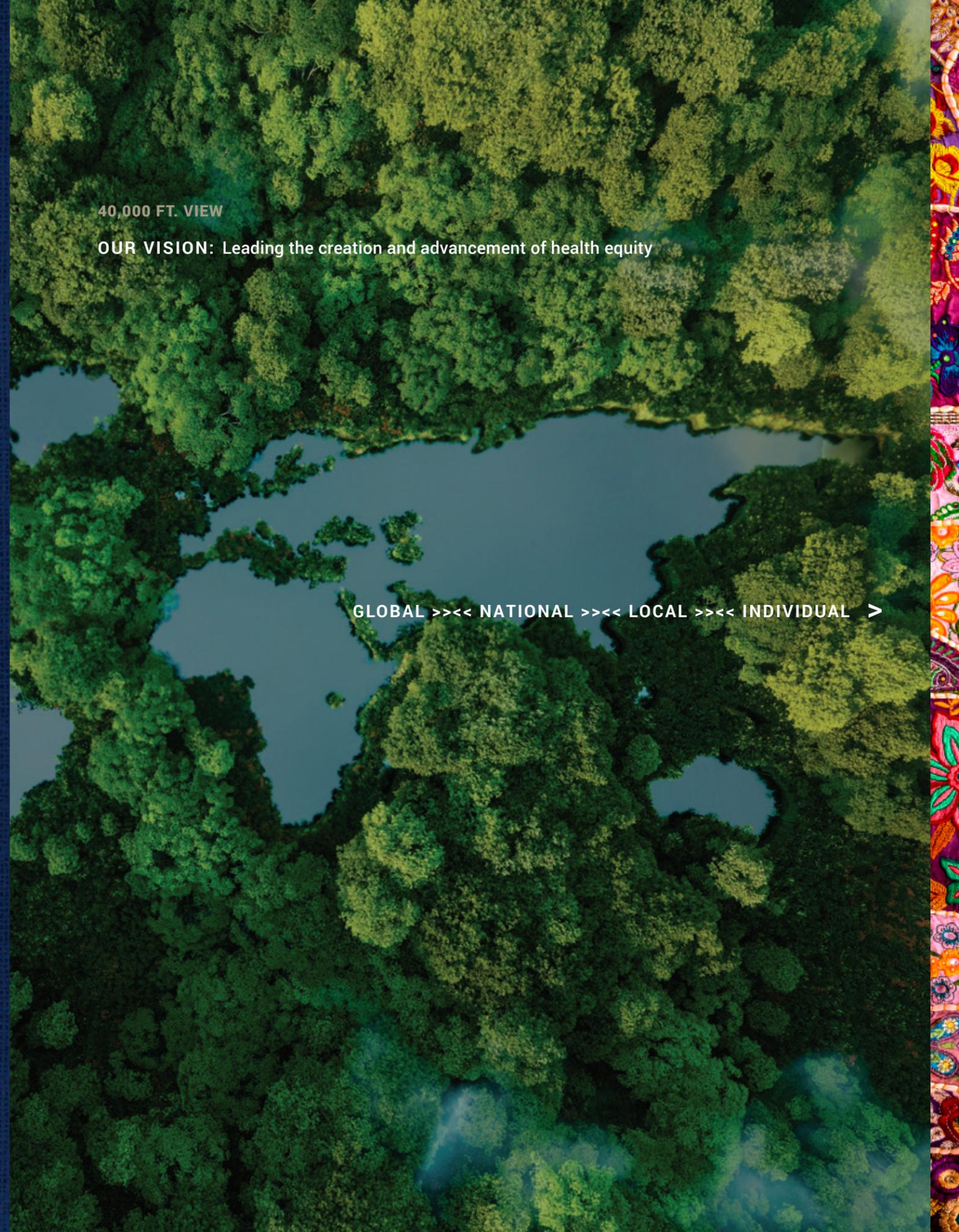
As they are woven together
It's easy to see the image that's formed
And how the tapestry supports and
Warms those in need.

We are Morehouse School of Medicine
And we are woven into our communities,
Close to home and around the world.

40,000 FT. VIEW

OUR VISION: Leading the creation and advancement of health equity

GLOBAL >>><< NATIONAL >>><< LOCAL >>><< INDIVIDUAL >





Core Values

Our core values guide organizational behavior and shape Morehouse School of Medicine's future. **Excellence:** Achieving the highest level of performance in all endeavors. **Service:** Treating all people and communities with respect, compassion, and empathy. **Knowledge:** Sharing our ideas, discoveries, methods, and skills to advance health equity. **Wisdom:** Valuing the knowledge and experience of all individuals. **Integrity:** Upholding the highest standards of ethical behavior, transparency, and accountability. **Innovation:** Creating inspired solutions in science, service, and education.

Beginnings

President and CEO

Dean and Executive Vice President

Board of Trustees Chair

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Letter from the President and CEO

Dear Morehouse School of Medicine Family and Friends,

As I reflect on 2022, I am proud of how Morehouse School of Medicine remains dedicated to our vision of leading the creation and advancement of health equity, and how we continue to innovate in the ways we serve our communities.

Over the past year, I have had the privilege of speaking with many experts about leadership and how to navigate challenging times. In April 2022, I launched the Danforth Dialogues podcast, an opportunity to learn leadership lessons directly from those who impacted their industries amid the COVID-19 pandemic. Among my guests were Centers for Disease Control and Prevention Director Dr. Rochelle Walensky, EMILY's List President Laphonza Butler, Goldman Sachs Chairman and CEO David Solomon, and CommonSpirit Health CEO Lloyd Dean, among others. The podcast also highlighted the leadership taking place here at Morehouse School of Medicine and in the Atlanta University Center, featuring a historic conversation with the presidents of Morehouse College, Spelman College, and Clark Atlanta University. I encourage you to listen to the podcast, which features new episodes each month.

I was honored to be recognized for my own leadership by two organizations in 2022, with Lifetime Achievement Awards from both the W. Montague Cobb/National Medical Association Health Institute and the National Medical Fellowships. I see these awards as not only reflective of my work thus far, but also as inspirations to redouble my commitment to elevate global health equity.

Morehouse School of Medicine continued to attract world class talent in 2022, welcoming renowned virologist Dr. Barney Graham as a professor and Senior Advisor for Global Health Equity, as well as Dr. Rick Kittles, who joined MSM as our Senior Vice President for Research. I deeply value their expertise, insights, and contributions to Morehouse School of Medicine as we expand our research portfolio, particularly in the field of genomics. Our Board of Trustees also grew in 2022, with the addition of Dr. John Whyte and Lisa LeCointe-Cephas.

Looking ahead, I'm excited about the multitude of ways that MSM is growing, from our class sizes to the construction of new buildings on our campus. Yet regardless of our expansion, some things remain constant: the strength of how we are woven into our communities, whether here in Atlanta or across the globe, and our mission to create a future where health equity is not a goal, but an accomplishment. I look forward to continuing this journey with you.

All the best,

Valerie Montgomery Rice
Valerie Montgomery Rice, MD, FACOG
President and CEO
Morehouse School of Medicine

2022 Highlights



Morehouse School of Medicine President and CEO Valerie Montgomery Rice, MD, FACOG (third from left) celebrates the passage of the Cybersecurity Opportunity Act with Sen. Jon Ossoff (center) and other officials on August 22, 2022 at Morehouse College.



(left) MSM President and CEO Dr. Valerie Montgomery Rice met with Sen. Raphael Warnock during a visit to Washington, DC on July 22, 2022. (above) Dr. Montgomery Rice surprised Dr. Harris-Hooker at the 38th Fall Convocation with the announcement that the third-floor research facility in the Medical Education Building was being named in the longtime faculty member's honor.

From the Dean and Executive Vice President

Dear Colleagues, Friends, Family and the Community of Morehouse School of Medicine,

As I journey through my second year at Morehouse School of Medicine, I have become even more committed than ever to the vision and the promise that our institution brings to the community, locally and globally. As we hold steadfast to our commitment to lead the creation and advancement of health equity that has embodied our mission from inception, we continue to witness events throughout our communities that highlight more than ever the reasons we exist — improving the health and well being of individuals and communities, increasing the diversity of our health professional and scientific work force, and addressing healthcare delivery through education, research and service with an emphasis on people of color and those underserved both in rural and urban populations.

In late 2022, the city and region of Atlanta experienced profound disruptions in health care access with the closure of two hospitals serving predominantly minority and urban populations. This has exacerbated the already underlying health care crisis of disparities within our region, for example, adding to the trends of increasing risks of maternal mortality that have been reflected across the country. Our healthcare delivery systems are even more pressured to deliver equitable care. Not unlike the pandemic, these events continue to demonstrate that health equity efforts across the nation continue to grow. In addition, we have the crisis of the diversification of our healthcare work force, the mental health issues that continue to burden our learners and our healthcare providers, and even more evidence to show that investments in scientific research that impact our broader community but especially communities of color, is an ever-present concern.

However, Morehouse School of Medicine's growing presence and contributions in critical areas of need across the spectrum of health are the themes celebrated in this annual report.

Indeed, we have engaged in several new partnerships in the clinical, education, and research arenas that have the promise of profound impact. Our presence as a trusted member and

pillar of service, engaged and interwoven in the communities we serve, is a competitive advantage in delivering on a promise of better health. We continue to attract gifted scientists in the areas of genomics, cancer, and clinical research. We continue to recruit high-impact clinicians and are carefully expanding our ability to more effectively deliver high quality care to our community. This past year, there have been many recognitions of our collective leadership and advances in our education enterprise as we continue to carefully grow and foster all of our degree granting programs, with continued acknowledgments especially of our MPH and Physician Assistant educational programs. Our post graduate clinical training programs continue to grow with outstanding leadership and stewardship, and our wide ranging education and research collaborations with CommonSpirit Health, especially in developing undergraduate medical education campuses and GME training programs, continue to expand.

Morehouse School of Medicine is on a trajectory of growth and excellence. We are building a foundation of sustainability and I will continue to dedicate myself to the future promise of our impact.

I want to sincerely thank the MSM Community, especially our clinicians, scientists, teachers, donors, and learners, for believing in this mission and staying the course as we achieve it.

With sincere regards,

Adrian
Joseph A. Tyndall, MD, MPH, FACEP
Dean and Executive Vice President
of Health Affairs



From the Board of Trustees Chair

Dear Morehouse School of Medicine Community,

I consider 2022 to have been a year of growth and new opportunities for Morehouse School of Medicine. The Board of Trustees remains committed to supporting MSM as the institution focuses on the future and expands to educate even more healthcare professionals, who are desperately needed here in Georgia and across the country. As MSM's class sizes and staff continue to grow, the need for more classroom and office space is also increasing. To that end, I was proud to participate in the groundbreaking ceremony in May for the new Calvin Smyre Education Conference Center. Named for longtime MSM Trustee and former Georgia State Representative Calvin Smyre, who retired last year after decades as the legislature's longest serving member, this new 52,300-square foot building will contain conference and education space, group workspaces for students, outside relaxation space, and office space. We expect the building to be completed next year and join other construction upgrades that are taking place on our campus.

The Board of Trustees also welcomed two new members in 2022: attorney and corporate compliance expert Lisa LeCointe-Cephas and John Whyte, MD, MPH, the chief medical officer for WebMD. These two individuals bring valuable experience and insights that are already enhancing the Board's leadership.

MSM's mission and vision are woven into everything that we do — the North Star that we follow toward a future where global health equity is a reality. As we work toward that future, the Board and I encourage you to take pride in our progress while also intensifying your efforts to achieve our aspirations.

Sincerely,

Arthur R. Collins
Board of Trustees Chair



The Calvin Smyre Education Conference Center broke ground last May and the 52,300-square-foot building will be completed next year

WOVEN

MSM's wide-ranging efforts to improve lives in 2022 extended across the U.S. and as far as Africa.

Our partnership with traditional healers in Senegal led to groundbreaking HIV/AIDS research results that hold promise to transform the world's battle against several deadly viruses. Nationally, our Center for Maternal Health Equity used modern technology to weave a greater sense of community among pre- and postpartum women of color in an effort to improve mortality rates.

Locally, from the Health Equity for All Lives (H.E.A.L.) Clinic to a mentorship program at the Tuskegee Airman Global Academy, Morehouse School of Medicine students are reaching out to and gaining experience in our own back yard. The impact of Morehouse School of Medicine's mission to improve health equity resonates throughout the school itself, as students (we highlight one here) emerge as future leaders and colleagues in MSM's extended medical community.

Stories of Impact

Global Impact

National Scope

Our City

One Student





GLOBAL

MSM Scientists Team with African Traditional Healers to Test a Natural Therapy that Shows Groundbreaking Results Against HIV/AIDS



WOVEN INTO OUR RESEARCH

In November 2022, a team of Morehouse School of Medicine scientists published results of their research into an indigenous, plant-based treatment for HIV/AIDS that promises to change the global battlefield against the deadly virus. The work began over two decades ago with a community of 68 women and their families in Senegal, brought together by the African NGO PROMETRA International (Association for the Promotion of Traditional Medicine). Later joined by MSM's Dr. Valerie Montgomery Rice, president and CEO, Michael Powell, PhD, professor of microbiology, biochemistry & immunology and his team, results of the research, which is ongoing, surprised nearly everyone involved: It's leading toward a potential cure for AIDS.

For six months, the women, all HIV-positive and some in the late stages of full-blown AIDS, were daily given a tea that had been made from an extract of the *Momordica balsamina* leaf. The patients recovered. The natural remedy proved so effective that the women remained HIV-negative, even 15 years later. "We

found that all of those patients now had undetectable viral loads, with no treatment in between," explains Powell, who with senior researcher Mahfuz Khan has been leading this research at MSM. "The immune system (CD4 counts) seemed to go up and the virus seemed to go down."

When Vincent Craig Bond, PhD, former chair of Powell's department, reviewed the results, he was skeptical. But the team did further antibody analysis on the women's blood samples, and it showed they had developed antibodies against HIV. Says Bond, "All of that data has said that, yes, it appears this hypothesis is correct."

The Path to Success

To get to this point has been a long journey, but it's one MSM is uniquely positioned to undertake. The effort required a willingness on the part of scientists in both Senegal and Atlanta to keep an open mind about each other's medicines and methods. To make



✂ "Public health is global. We live in a global village. It's a lesson in public health we can never afford to forget."

—Dr. David Satcher, MD, PhD,
Founding Director and
Senior Advisor, Satcher Health
Leadership Institute

40%

* A full 40 percent of the drugs behind the pharmacist's counter in the Western world are derived from plants that people have used for centuries, including the top 20 best selling prescription drugs in the US today.

* According to the US Forest Service

any findings acceptable in the West, the Morehouse School of Medicine team needed to discover if the results from the traditional medicine being studied could meet American scientific standards. “They had plants, and they just wanted a simple question answered,” says Powell, “to see if at any scientific basis [the treatment] worked.” After isolating one of the plant’s key proteins, now called MoMo30, Powell and his colleagues have made strides toward proving that it does.

The success of this research and the ongoing hope it offers for the future mitigation of HIV/AIDS come out of how hard Morehouse School of Medicine’s scientists have worked to weave themselves and the institution into the global health community. “One of the reasons we at Morehouse School of Medicine are so culturally competent globally is because a significant number of our faculty come from somewhere [else around the world],” says Virginia Floyd, MD, MPH, associate professor of community health & preventative medicine, who for decades has been studying traditional medicine, indigenous cultures and ways we can learn from each other.

Erick Gbodossou, MD, founder of PROMETRA International – which documents, validates and protects indigenous African traditional medicine – helped the MSM scientists understand the African approach to these diseases, which involves deactivating the virus. “We don’t kill, we remove it,” he explains.

The scientists at Morehouse School of Medicine came to realize that to bring more groundbreaking natural medicines to the West required two components: “It’s knowledge plus knowing,” says Floyd. “At Morehouse School of Medicine, you’ve got plenty of knowledge – libraries, scientists, faculty. What PROMETRA brings is the knowing” – the traditional healing methods passed down through generations and an innate belief that remedies for our worst diseases can be found in the natural world. “What Morehouse School of Medicine did that was unique is merge these two systems...to ensure health equity for the globe,” says Floyd.

Impact on the Future

Morehouse School of Medicine is now prepared to weave that understanding into its mission, and the institution is hoping to find cures for many different and emerging diseases through traditional medicine. “Morehouse School of Medicine and its African partners perceive this as a method for the sustainability of our institutions – both our academic institutions, and our indigenous institutions,” says Floyd. “It’s a way of preserving this knowledge.”

By documenting and holding onto this knowledge from afar, it will also help patients closer to home. As Bond points out,

In 2017, President and CEO Valerie Montgomery Rice traveled to Fatik, Senegal, with Dr. Kofi Kondwani to meet with Dr. Erick Gbodossou and women in the community.



“MSM has the knowledge, and the traditional healers have the knowing. What Morehouse School of Medicine did that was unique is merge these two systems... to ensure health equity for the globe.”

– Dr. Virginia Floyd

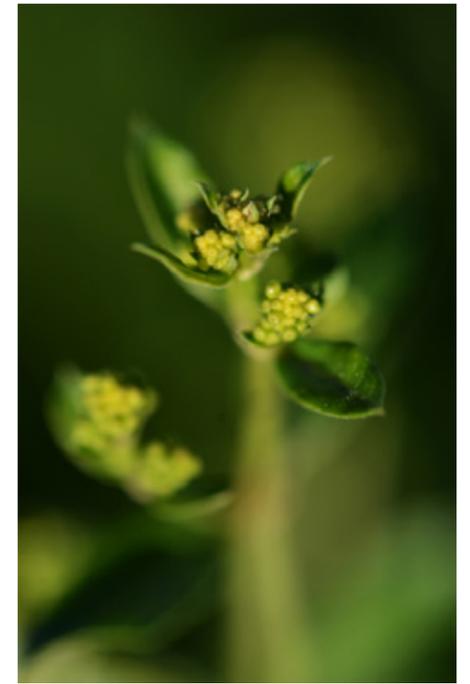
“anti-retroviral [drugs] are almost as bad as the disease.” The possibility of curing a disease like AIDS with a plant-based tea, he says, “certainly is a better way to treat people.”

Whether near or far, MSM’s research “must have a community involved,” says Floyd. “We’re not going to let you cut that corner at Morehouse School of Medicine.” It’s a belief shared by Gbodossou and PROMETRA International. In order make these key strides, Western medical experts like those at Morehouse School of Medicine must partner with indigenous healers. “The challenge is so big, only one country cannot do it,” says Gbodossou. “We need to build a big network where we can connect the knowledge and the know system to be more useful for the future generations.”

Doctors Floyd, Powell and others at MSM and PROMETRA International see their work as building a bridge to the future, and they are optimistic that this research is only one example of what traditional and plant-based medicine can do. Around 80% of all the plants out there haven’t been tested. Morehouse School of Medicine plans to change that through studies like those being conducted at Powell’s lab. Breakthroughs may also come out of the ongoing efforts of the Office of Global Health Equity and MSM’s new Natural Products Research Center which, through research, education, service and enterprise, aims to take on drug research and discovery against such pathogens as Zika, Ebola, Coronavirus and more.

Powell recently published a second paper about his lab’s results, which were confirmed by the U.S. Army’s lab at the Medical Research Institute of Infectious Diseases at Fort Detrick in Maryland. “We now know what is in this plant,” says Floyd. “Michael and his team have sequenced it.”

And the journey isn’t over. “These healers use plants, and we wanted to look at plants to see if we could figure out the biological activity,” says Powell. “AIDS is where we started but there are a lot of plants and lots of things that need to be done. This is kind of a test.”



NATIONAL

MSM's Center for Maternal Health Equity Makes Big Strides Toward Improving Maternal Morbidity

Right now in America, Black women are dying from pregnancy-related causes at a rate nearly three times higher than white women. Bashellia Williams, a recent graduate of Morehouse School of Medicine's new Perinatal Patient Navigator Training Program, knows all too well the dangers and challenges of pregnancy for African-American women.

In 2022, her pregnant 21-year-old daughter suffered a complication: Her water broke early. When Williams, herself a mother of six and a doula, took her to the hospital, "They treated my daughter so bad," she said. Despite Williams' 20 years of experience in health care, "The doctor basically told me, 'I'm the doctor. You're not.'" The care team refused to do tests she suggested. "They sent my daughter home ruptured," she added. "She ended up having her baby at home. I caught my granddaughter in my bathroom."

This situation confirmed to Williams how important the Navigator Program, created by MSM's Center for Maternal Health Equity, would be. Funded through Goldman Sachs and their One Million Black Women Initiative, the course trains women as community health workers, doulas, lactation counselors and more. Dr. Natalie Hernandez, executive director of the Center for Maternal Health Equity, explained, "It trains them to be integrated into clinical care teams to really address a lot of these unmet needs that birthing women have during their perinatal experience."

The program fits seamlessly into Morehouse School of Medicine's mission to focus on health inequities nationally. And it spotlights how MSM is particularly adept at finding and leading in health areas that have been ignored or underserved, in part because "a lot of us come from these communities," said Hernandez, who was born in the Bronx, a borough of New York City, and is a mother of two. "A lot of us have these experiences."

The Perinatal Patient Navigator Training Program

The Navigator Program started in 2022 and graduated its first class of 27 in February 2023. In its mission to train doulas and health workers, it covers all aspects of the American healthcare system, including how to make notes on medical charts and work



WOVEN INTO OUR IMPACT



with electronic records. “We’re actually providing the participants with skills that are going to go so much further than what a doula can do,” said Hernandez. “They will also ask their patients, ‘How is your housing? How is your transportation?’ They’re helping to schedule their doctor’s appointments; they’re going with them to their appointments to advocate with them.”

The program can be intense. “This training provoked me to take a long look in the mirror and have a very honest conversation with myself,” admitted Williams. “It stripped the glitz and glam of doulaship.”

The program is already making a difference at the community level as Williams and her cohort take their skills out into the workplace. Some in the training program are also going on to be integrated into Morehouse Healthcare. “It’s an opportunity that I would suggest to anyone seeking to make a difference in a community and increase the quality of care as it relates to maternal health,” Williams said of the program. Hernandez hopes to take the program national in the future.

PM3: Using Technology for a Better Postpartum Experience

Hernandez and her team also spent time in 2022 putting the finishing touches on an app that aims to improve the experience of underserved women of color who are pregnant and becoming mothers. Dubbed PM3, which stands for Preventing Maternal



“We noticed the majority of maternal deaths happen in the postpartum period. That’s the most neglected period of a pregnant person’s life.”

— Dr. Natalie Hernandez

69.9

Number per 100,000 births of Black or African-American maternal deaths in the U.S. in 2021.

38%

Black women faced a 38% higher mortality rate than white women in the U.S. in 2021

10X

The U.S. rate for all maternal deaths is 10X higher than the estimated rates of some other high-income countries (32.9 maternal deaths per 100,000 in 2021).

Mortality Using Mobile Technology, the app focuses on providing resources and a community for postpartum women but can also be used to track things like blood pressure and weight during and after a pregnancy. Along with the app, users are issued a Google Fitbit, an Aria smart scale, and a Bluetooth-enabled blood-pressure cuff.

“Half of the counties in the state of Georgia and the United States in general don’t have any type of maternity care provider,” said Hernandez, adding, “We noticed the majority of maternal deaths happen in the postpartum period. That’s the most neglected period of a pregnant person’s life.” She and her team—which included Sherilyn Francis, an MSM graduate with a master’s degree in public health and the science of biotechnology—focused on creating a resource that wouldn’t replace a provider but would give women tools to use until they could get to a doctor.

The PM3 started with focus groups. “We began with a community-based participatory approach,” said Francis, now a doctoral student at Georgia Tech and a new mother. The researchers invited rural African-American postpartum women to share their stories. “In the first 10 minutes of the focus group, I was in tears,” recalled Francis. “The level of trauma they were describing simply from giving birth...I was really taken aback.”

As their research took shape, the design team realized the app needed to celebrate Black womanhood. The women they spoke with “wanted something that saw who they were, that was made for them by them,” Hernandez explained. Now, when women open the app, they see their name — and they see it spelled correctly.

The app includes other culturally relevant information that is updated and personalized for each user. “Every woman that gets on the mobile app, the information that’s processed to them is going to be different because it’s not a one size fits all,” said Hernandez. The app also connects women to resources and to other women in their own communities.

The results of these efforts by Hernandez and her team at the Center for Maternal Health Equity can’t be denied. Through the Navigator Program, Bashellia Williams earned certification from the National Black Doula Association, which opens even more opportunities for her and the other graduates.

Sherilyn Francis saw how the app she helped create really worked during her own pregnancy, when she went from being on the development side to being an end-user of the technology. As a full-time student and researcher, she often showed up at her prenatal appointments stressed out and presenting with high blood pressure. The doctor wanted to put her on medication for maternal hypertension, but Francis pulled out the app and made a deal: “If I can just monitor my blood pressure myself at home and demonstrate that it is actually normal when I’m not just minutes after class, or minutes after a meeting, will you take this data?” she asked. The clinical staff agreed. Francis monitored her blood pressure every morning and evening through the PM3 app, “and it was perfect!” she says. “That was a major factor in the clinical staff deciding not to medicate me.” It’s these kinds of outcomes Hernandez hopes to see more of as the app rolls out and initiatives like the Patient Navigator Program take flight.

There’s no better place for this to be happening than at Morehouse School of Medicine. For maternal health equity, and health equity in general, Hernandez said, “Our community is so central to who we are and how we build the ideas, the hypotheses, how we connect. People can see we’re not just the little engine that could, we’re the engine that went there and went far and above where we wanted to go. It’s more than just a job for us, it’s a mission.”



LOCAL

Morehouse School of Medicine is Deeply Woven into the Fabric of Atlanta



WOVEN INTO OUR CARE

From its home in Atlanta’s West End neighborhood, Morehouse School of Medicine has woven itself into the fabric of the community over the past nearly 50 years. Whether caring for patients, inspiring future generations of healthcare professionals, or participating in unique opportunities, MSM’s reach is broad and deep.



Caring for Those Who Need It Most

Morehouse School of Medicine was founded, in part, to provide medical care to a community without access to physicians. Decades later, MSM continues this critical role through the student-run Health Equity for All Lives (H.E.A.L.) Clinic, treating patients who lack health insurance. The clinic was founded in 2011 by a handful of medical students who wanted to make an impact in the community.

“The MSM H.E.A.L. Clinic exists to provide effective, efficient, and excellent health care to the uninsured,” said Dr. Christopher Ervin, Director of Community Engagement Initiatives in the MSM Department of Family Medicine. “The students get to develop their clinical skills and serve the community by doing so. At the same time, the students are discovering that this is an excellent opportunity to take what they’re learning in the classroom and apply those skills in the real world. It raises the bar in their educational experience.”

Dozens of students from across MSM’s academic programs – Doctor of Medicine, Master of Public Health, Physician Assistant Studies, and Graduate Education in Biomedical Sciences – serve at the MSM H.E.A.L. Clinic each school year as “co-directors.” In addition to treating patients at Morehouse Healthcare’s Lee Street and Howell Mill Road locations, the co-directors conduct telehealth appointments and conduct community health fairs.

“We see all patients needing basic primary care services and chronic disease management who are uninsured in the metropolitan [Atlanta] region,” Dr. Ervin said. “We will take care of most illnesses that can be managed with prescription medication, such as high blood pressure, diabetes, asthma, mild to moderate infections, basic lab work, and physical exams.”

With Georgia among the few states that have not expanded Medicaid, the need is even greater.

“Many of the patients that we see are actually employed,” Dr. Ervin explained. “It’s not that these are indigent, unhoused community members. Many of the patients we see have been employed but the type of job that they have does not provide them with health insurance. There are many people in the community who deserve quality health care but don’t have the means to receive it, and the MSM H.E.A.L. Clinic fills that gap.”



Supporting and Encouraging MSM’s Young Neighbors

Less than three miles from MSM in southwest Atlanta, Tuskegee Airmen Global (TAG) Academy educates pre-Kindergarten to fifth grade students. It’s a Title 1 school, meaning most children qualify for free lunch programs. Since 2015, MSM and TAG Academy have had a special relationship through a mentoring program for third, fourth, and fifth graders. Each pair meets up at least once a month.

“The kids love speaking to their mentors because it gives them a chance to have someone they can count on and talk to,” Jacqueline Thrash, who serves as the mentoring program manager. “Some of the kids come from households where there are a lot of kids, so they may not have that time with just Mom or Dad. They feel special just coming out of their class, and it’s rewarding that way.”

A wide variety of people from the MSM community serve as mentors, including faculty members, staff, and students – and Thrash says more are always needed. Thrash makes sure to point out that mentors aren’t tutors, serving more as role models to their mentees. Thrash says she and her mentee often just spend time together talking.

“She wants to be a pediatrician, so she asks me, ‘Morehouse School of Medicine – what exactly do y’all do?’” Thrash said. “And when I told her, she said, ‘I am going there.’ She can see her future at MSM because of our relationship.”

The mentors also benefit from their time with the students.

“We’re making a difference in that child’s life,” Thrash explained. “Seeing a smile on their face makes me happy. Some mentors say it’s a way for them to give back, and we all have something to give. We’ve all been third, fourth, and fifth graders – we’ve all had someone who made a difference in our lives, and we can be that guide.”



Taking the Field for a One-of-a-Kind Experience

It's an opportunity that few healthcare professionals will ever get: to learn sports medicine on the field with an NFL team. That's just what three fourth-year Morehouse School of Medicine students had the opportunity to do after they were selected as part of the league's first-ever Diversity in Sports Medicine Pipeline Initiative.

In the fall of 2022, Paolo Gilleran and Eddie Gontee worked for a month each with the Atlanta Falcons. Their classmate, Omolayo Dada, was chosen for a month-long rotation with the San Francisco 49ers.

"Morehouse School of Medicine is honored to have three of our students in the inaugural class of the NFL Diversity in Sports Medicine Pipeline Initiative," said MSM Dean and Executive Vice President Adrian Tyndall, MD, MPH, when the program was announced in August. "Omolayo Dada, Paolo Gilleran, and Eddie Gontee are shining examples of the academic excellence at Morehouse School of Medicine. Having access to this specialized clinical rotation with NFL club medical staffs not only demonstrates the League's commitment to diversity, equity, and inclusion, but ensures our participating students are trained at the highest level in orthopedic and primary care sports medicine."

"Sports medicine is something I was interested in, and I wanted to get more experience in it," Gilleran said, describing his reasons for applying to the program. "Also, growing up, the Falcons were my favorite football team, so I thought this was a great opportunity to be a part of the team and see how it operates on



MSM students Paolo Gilleran (top right) and Eddie Gontee (bottom right) got up close and personal with the Atlanta Falcons as part of the NFL Diversity in Sports Medicine Pipeline Initiative.

a day-to-day basis, and learn from some of the best in the nation in sports medicine."

"I'm applying for a residency in orthopedic surgery and as we all know, there's a shortage of African-Americans in that field," Gontee said. "More specifically, there's a shortage in the field of orthopedic sports medicine as well. I felt that there was no better place to gain experience than Atlanta — it's my hometown. I grew up here and grew up watching the Falcons, and it just seemed like the perfect fit."

Both Gontee and Gilleran used the word "surreal" to describe their reactions to the news that they had been selected. Eight NFL teams participated in the initiative's inaugural year, with plans to expand it to all 32 teams in the 2023-24 season.

During their rotations with the team, Gilleran and Gontee shadowed the Falcons medical staff as they worked with players in the team's clinic, at practices, and during games. Gontee also observed the team's orthopedic surgeon in the operating room. They each had the opportunity to watch players who were injured early in the season work their way back to the field.

"There was one case where a rookie had torn his ACL on the field," Gontee recalled. "I had already built up a rapport with him and wanted to be there for his surgery. It was something that was important to me, understanding that he was an African-American man, and I was as well. On that day in the operating room, I was going to be the only other person that looked like him, and I thought that it was important for him to see me."



WOVEN INTO OUR FUTURE

ONE STUDENT

An MD Candidate Shines a Light on the Experiences Prospective Graduates Bring to MSM

Melissa Issa-Boube's path to the MD program at Morehouse School of Medicine began with woven fabric. While studying neuroscience and French at Emory University as an undergraduate, she decided to participate in one of the school's Taste of Africa events by making a skirt, and then a dress. "I don't know what possessed me to pull out my mom's sewing machine," the second-year MD candidate said recently. When she began posting pictures of her clothes on social media, there was a lot of interest from her followers.





As an undergrad, Issa-Boube planned to become a neurologist or neurosurgeon.

Melissa, 30, graduated from Emory in 2014 and when she didn't get into the medical school of her choice, "I had to pivot," she recalled. Working with Teach for America, she became an anatomy instructor in an Atlanta high school. "I fell in love with helping students understand science so that I could encourage them to choose STEM careers," she said. "They shied away from STEM because they thought it was boring, so I took it upon myself to make it really interesting for them."

That's also when she really taught herself to sew. In her free time, she began designing clothing and selling it online. She created a small business, Mena Mode, named after the dama gazelle, the national animal of her ancestral home, Niger, in West Africa. "That led me to realize I really liked working with my hands. I liked seeing results in the short term and I liked having the ability to take aesthetics into account."

That combination got her interested in plastic surgery. "I found that plastic would be a great way to incorporate medicine, design, innovation, working with my hands, detail orientation, all in one field," she said.

Melissa earned an MS in biology and a graduate certificate in Public Health at Georgia State University in 2017. But she was torn between medicine and her business: "It started to get to a point where I couldn't do both." She needed to shift some work off her plate to focus on med school. "I had this bright idea to find a way to employ women in Niger to learn how to make my designs and then be able to sell the clothes themselves," she said. That evolved into her Women's Initiative in Niger, through which she has raised funds to donate school supplies, feminine hygiene products and mosquito nets. "We were able to help rebuild the ambulance in my mom's village," she added, which allowed for more reliable transportation to the nearest hospitals.

Through One Young World, a global community that fosters emerging leaders, she met other people with similar ideas who wanted to move the world forward. But she also learned a big lesson: Nothing happens without funding. "I had to put a pin in that idea as I knew that I had to go to medical school," she explained. "I could see that as something that could catapult me back into that [global] field, but with more knowledge, more resources, more connections." She applied to Morehouse School of Medicine and was accepted.

Strong Ties to Atlanta

Melissa has strong ties to Georgia and Morehouse School of Medicine. She was raised in Fayetteville, where her mother teaches French in the Fulton County schools and her father is a civil engineer. Melissa is the oldest of three. Her sister, Samira, 28, is a class of 2024 anesthesiology med student at MSM and her brother, Mandela, 26, is a software engineer. MSM was her top choice. "I felt like I belonged at this school," she said. "One, my sister is here. But beyond that, there's just this familial feel at Morehouse School of Medicine that I didn't get when I interviewed at other schools. It felt very genuine, authentic, and that's something that I really admire and something I like to embody in myself. It just made sense for me to go here."

As a student, she has taken full advantage of her time on campus to make connections and explore opportunities. In her first year, she was looking for a way to incorporate global health into her Morehouse School of Medicine experience, and although MSM had established the Office of Global Health Equity (OGHE) in



"...There's just this familial feel at Morehouse Morehouse School of Medicine that I didn't get when I interviewed at other schools. It felt very genuine, authentic, and that's something that I really admire and something I like to embody in myself. It just made sense for me to go here."

2018, she had a hard time finding a way to travel overseas as a student. "I wanted to be able to do research or something," Melissa said, "and the opportunity just wasn't there."

She and fellow student Gene Osuoha chatted with Dr. Rigobert Lapu-Bula, an associate professor of medicine at MSM, about his yearly travels to the Congo. As he spoke, "My classmate and I looked at each other and we were so inspired because we felt we could kind of tag along

with him," she recalled with a laugh. "We were delusional, innocent! It hit us really quickly it doesn't work like that. There's a process." Shortly after that conversation, she and Gene created MSM's first Global Health Interest Group for students to spread the word about ways for her and others to study and work abroad in medicine. "There are opportunities, but students aren't aware," she said.

Quickly, Melissa and Gene's interest group became a conduit of information

between MSM's OGHE and other global health groups that "don't seem to penetrate the student body," as she put it. Over the past two years they've put together several events, including a meeting for a student who'd done a rotation in India to share his experience with classmates. More than 25 people attended.

"We've been extremely active on campus," Melissa said, explaining how they've raised money for Haiti and worked with Books for Africa. Their group follows



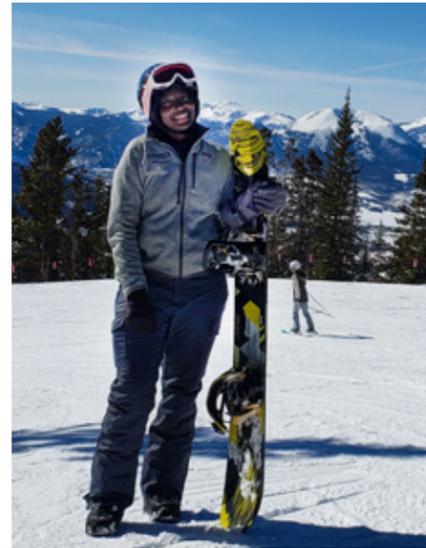
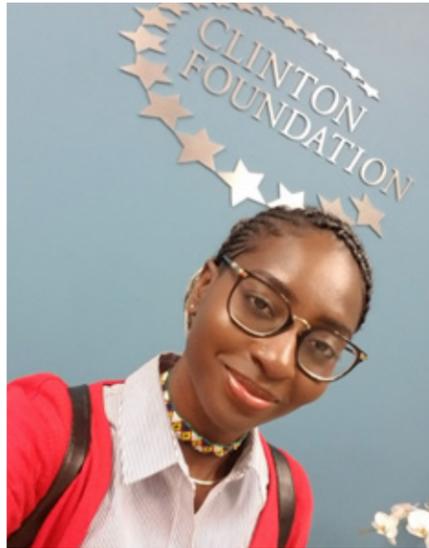
In Spring of 2022, GHIG volunteered with MedShare to package 93 boxes that helped 537 patients. (left to right back) Tatyana Young, Melissa Issa-Boube, Gene Osuoha, Daniel Moore (left to right front) Cindy Ejindu, Zion Eberhart

MSM's mission and works in local communities as well, redistributing medical supplies with MedShare and teaming up with Meals on Wheels. "There's this concept called 'Glocal' community service — doing global health work locally," she said. "We wanted to make sure we could do that even if we couldn't go to the Congo with Dr. Lapu."

As she looks ahead, Melissa, who was also president of the Plastic Surgery Interest Group, hopes to remain in Georgia, possibly at MSM, for a surgical residency when she graduates, despite the fact that Morehouse School of Medicine doesn't have a plastics specialty. "They're still on my list because there's multiple ways to get into plastic surgery," she said. "Even if I do a residency away, I see myself coming back here. Atlanta will always be home."

With her global health passion, she wants to see if she can use her skills to help women who have suffered from female genital mutilation. "That's one thing I'm interested in learning more about," she said. "I want to see if there's a way to do reconstructive surgery for them."

Morehouse School of Medicine is an important step in this driven, lively student's journey and desire to make an impact on the world. "The professors are very, very, supportive and they know who to connect you with, who can help. And I've never been told, 'No,' it's always been, 'not now,'" she said. "Morehouse School of Medicine gives me the mental space to breathe, to think forward about what I want to do." Melissa took a moment and smiled. "It really all started with me randomly pulling out my mom's sewing machine."



(clockwise from top left) In 2019 Melissa Issa-Boube was invited to attend the Clinton Global Initiative Marketplace Day in New York to discuss goals for the brand and sell items made by women in Niger; snowboarding in Colorado; MSM's white coat ceremony; In Birnin Konni, Niger with sister Samira and mother Azaratou Issa-Boube

What Guides Us

Vision

Growth

Insights

Partnerships

OUR IMPACT BY THE NUMBERS

\$1.1 Million

MSM was selected by the United States Department of Health and Human Services' Office of Minority Health to lead a project focused on advancing health equity through collaborative policy efforts. MSM was awarded up to \$1.1 million over three years and will collaborate with the City of East Point, Georgia, and other partners.

96

Research and training grants

\$33,261,836

Total dollar amount awarded in federal grants

42%

Residency students will stay in Georgia for their residencies and half of the class matched into primary care specialties.

International Elective

Three fourth-year Doctor of Medicine (MD) students completed a month-long training in India to learn techniques of traditional Siddha medicine as complementary and alternative medicine.

96%

Match with residency programs, including 94 percent who received their first choice of specialty.

Recognition

MSM's Online Master of Science in Biotechnology degree program was ranked second-best in the United States by Intelligent.com. The degree program was also recognized as the best in the nation offered by a Historically Black College or University.

\$75,628,070

Total dollar amount awarded in research grants

Breast Cancer Ghana

Morehouse School of Medicine's Melissa B. Davis, PhD, serves as Scientific Director of the International Center for the Study of Breast Cancer Subtypes (ICSBCS). The group focuses on characterizing the biological determinants of cancer disparities across the African diaspora, particularly regarding the tumor biology differences that drive worse outcomes in these populations.

Telemedicine Zambia

Under the leadership of Dominic Mack, MD, MBA, the National Center for Primary Care (NCPC) at MSM has been collaborating with the Zambian Ministry of Health and other partners on an innovative telemedicine program within the country's Lusaka District funded through the PEPFAR program. Since it began in June 2021, more than 2,900 patients have received care through the program, which offers appointments in five treatment areas – from tuberculosis preventative therapy to mental health services.

Malaria Ghana

Jonathan Stiles, PhD, is a professor and chair of the MSM Department of Microbiology, Biochemistry, and Immunology. He is co-principal investigator of a project that aims to develop a new potential treatment for a severe form of malaria. The international research team, which is also led by Byron Ford, PhD, of University of California, Riverside, received a \$2.7 million grant from the National Institutes of Health's (NIH) National Institute of Neurological Disorders and Stroke (NINDS).

HIV/AIDS Senegal

A team of Morehouse School of Medicine researchers investigated a treatment used by African traditional healers in collaboration with PROMETRA International, a non-governmental organization of traditional healers led by Dr. Erik Gbodossou, both a traditional healer and a Western medical doctor located in Senegal.

1 VISION

Health Justice:

TAKING MSM'S STRATEGY TO THE NEXT LEVEL

Morehouse School of Medicine has always had a vision for the future. On July 1, 2022, Dr. David Hefner, Vice President, Office of Strategy and Institutional Effectiveness, Dr. Henry King, Director of Institutional Planning, and their colleagues, began a series of meetings to develop the institution's next strategic plan, the results of which will lead MSM on a transformational journey.

They began their work with a question: "How do we take all we've been doing over the past eight years and take it to its next logical conclusion — maybe times two?" Hefner explains. "We are on the cusp of some extraordinary things," he says, regarding MSM's work to promote and improve health equity locally and around the globe. "We have led in this space and now we're taking it to the next level."

To find the right path to do that, King gathered people from across the 50-plus MSM departments in a series of strategy meetings to review and discuss the institution's strategy. They included people from the department office level all the way up to the institution's leaders. The effects were revelatory. "We're expanding from the whole notion of health equity to health justice," says King, introducing strong new phraseology the strategic plan will codify and promote. "Making that shift from where we've been for some years now, leading in that space when it comes to creating and advancing 'health equity' to now 'health justice' has been [a result of] the organizational leadership's mental shift and we know it's going to play down in the organization," he says.

To begin to transition the institution's thinking toward the idea of health justice, King relied initially on a simple graphic — a depiction of a father with two sons standing behind a fence. To help illustrate the possibilities for how MSM could go even further than it has already as a thought leader in the realm of health equity, he says, "We showed our leaders that picture but we took the fence down and asked them, what would our preferred future look like having removed that fence?" The fence represented the adverse social determinants of health. What happened, he says, "was almost beyond a mind shift, it was almost an internal revival. It was an awakening."



(clockwise from top left) Hefner and King held a series of vision meetings over the past year; participants in a Strategy Design Team meeting; the cover of the Winter/Spring 2022 issue of Primarily Caring magazine, for which Hefner serves as editor-in-chief; students and STEM are the focus of the Pipeline Repository.

Now, he says, "Everything is flowing out of that." The goals of MSM to fight for and promote greater health justice will ramp up and put to use new technologies and new organizational staff positions with the aim of being better able to gauge and manage MSM's impact on those we serve. "We've moved from planning the strategy — the vision, mission, goals, and strategies," says King, "and now we're planning out how we're going to execute those strategic elements which will include defining the metrics."

One particular tool that will help is the T^x Platform for Georgia, formerly called the Health Equity Tracker, which gathers health data across 15 variables, from population demographics to poverty and insurance rates. In 2016, an MSM team led by Daniel Dawes, the former director of MSM's Satcher Health Leadership Institute, performed an assessment across the state to identify the health needs in all 159 counties. "This T^x Platform was what we created [in response]," says Hefner.

Now, with expected funding from Georgia, MSM will introduce a new position in data analysis to evaluate the data captured, housed in the Enterprise Data Warehouse, and it's a big step forward in making better sense of the information collected. "We had no mechanism by which we were assessing what a community needs, when they need it and how much they need," says Hefner. The T^x Platform for Georgia will allow MSM to further identify specific needs at the community level. MSM will then form teams that will leverage the data with government officials, public and private-sector stakeholders and others to address the needs in the state around health and health inequities at the community level.

"It all goes back to the whole notion of how we want to have greater impact in the community," says King, "not just with health equity but health justice."

Three Plans of Action for 2023

In addition to the T^x Platform, Dr. David Hefner and the Office of Strategy and Institutional Effectiveness have big plans for the next year at Morehouse School of Medicine:

Data Governance:

"Unless you have clean data, you don't have anything," says Hefner. To ensure that MSM's new plans of action are built on strong and correct data, he and MSM's Chief Information Officer have been working as co-chairs for policy on how MSM's data is handled. The processes will employ machine learning and artificial intelligence programs.

MSM National Health Sciences Pipeline Repository:

In conjunction with the Association of American Medical Colleges, MSM continues to lead the effort to advance STEM pipeline initiatives to increase the number of African-American participants in science programs, graduate programs and medicine. This repository will create a national platform that will tell the stories around best practices in producing these programs to create a larger pipeline of applicants that will go into science and medicine.

Primarily Caring magazine:

The Summer 2023 issue of MSM's magazine will focus entirely on new and exciting research being done through Morehouse School of Medicine and its partners into HIV/AIDS prevention and treatment. (See Global story, page 12.)



Unprecedented Growth:

NOTABLE NUMBERS FOR THE RECORD BOOKS

Calvin Smyre Education Conference Center Groundbreaking: A groundbreaking for the new 52,300-square-foot Calvin Smyre Education Conference Center took place on May 19, 2022, in a “surprise” ceremony in which the name for the new \$45 million center was announced after having been kept secret. “We are honored to be able to name our newest building after this incredible public servant,” said MSM President and CEO Valerie Montgomery Rice of the structure that is scheduled to be completed in 2024. A Board of Trustees member and former Georgia State Representative, Smyre was elected to the Georgia State House in 1974 and recently retired as its longest-serving member. Smyre was instrumental in helping MSM secure the state funding vital to its initial accreditation. “I am overwhelmed and so appreciative that you would name a building after me,” Smyre said at the event.

Match Day Success: In March, MSM celebrated its fourth-year MD students on Match Day when more than 96% of the class of 2022 matched with residency programs, including 94% who received their first choice of specialty. Half of the Class of 2022 matched into primary care specialties, with 42% remaining in Georgia for their residencies. Twenty-two percent matched to residency programs at Morehouse School of Medicine.

Gloster Society Record-Breaking Funds: MSM’s Gloster Society raised over \$3 million at its 12th Annual Hugh M. Gloster Society Celebration on April 21, “the most sponsorships and unrestricted funds of any Gloster Society Celebration in our history,” said Harvey Green, senior vice president for the Office of Institutional Advancement.

Convocation: On Sept. 16, 2022, MSM welcomed a record 337 new students, its largest class to date, including:

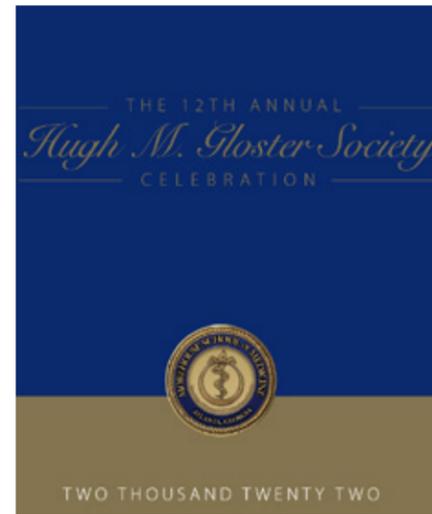
- Doctor of Medicine: 125
- Master of Physician Assistant Studies: 44
- Online Master of Science in Biotechnology: 43
- Master of Science in Medical Sciences: 32
- Master of Science in Biotechnology with a concentration in Medical Cannabis Therapeutics: 23
- Online Master of Science in Health Informatics: 19
- Doctor of Health Administration: 16
- Master of Public Health: 12
- Doctor of Philosophy in Biomedical Sciences: 8
- Master of Administration in Justice-Involved Care: 8
- Online Master of Public Health: 8

CommonSpirit New Regional Campuses: In its partnership with Morehouse School of Medicine as a part of the 10-year, \$100 million joint More in Common Alliance initiative to add diversity and equity to health care, CommonSpirit Health has opened two undergraduate medical education sites to address the shortage of diverse clinicians. The sites are at St. Joseph Hospital in Lexington, Kentucky, and Virginia Mason Medical Center in Seattle, Washington, which welcomed their first students for clinical rotations in August. Post-graduate residencies and fellowships are also planned for Bakersfield, Los Angeles, and Santa Cruz in California, as well as in Ventura County over the next few years.

NFL Diversity in Sports Medicine Program:

In August, three MSM students were selected to participate in the inaugural class of the NFL Diversity in Sports Medicine Pipeline Initiative, which aims to increase and diversify the pipeline of students interested in pursuing careers in sports medicine and, over time, help to diversify NFL club medical staff. (See Local story, page 22.)

Winter Commencement: On Dec. 16, 2022, a total of 81 degrees were awarded at MSM’s Second Winter Commencement at the on-campus event for which Dawn Morton-Rias, president and CEO of the National Commission on Certification of Physician Assistants was the keynote speaker. “As you go forward, hold strong to the principles and guiding forces that compelled you to this life of service,” urged MSM President and CEO Valerie Montgomery Rice.



GROWTH 2

3 INSIGHT



Our Cultural Insight Informs:

EDUCATION, HEALTHCARE, AND RESEARCH

Education: With its largest class size ever matriculating at Morehouse School of Medicine in 2022, MSM continues to be on the leading edge of medical and healthcare education that focuses on health equity and justice. With state-of-the-art facilities and a world-class faculty, Morehouse School of Medicine offers a unique education experience, and we are always expanding our reach. In 2022 we partnered with Agnes Scott College to create an Early Commitment Program and Pre-Medical Linkage Program to support and improve the pipeline to higher medical education at MSM. A new Frontiers in Environmental Science and Health program, in collaboration with the University of Georgia and funded by a grant from the National Institutes of Health, will train and mentor promising students from underrepresented communities in sophisticated technologies in environmental health science research. Furthermore, in conjunction with CommonSpirit Health and our joint More in Common Alliance initiative, two undergraduate medical education sites have opened — in Lexington, Kentucky, and Seattle, Washington — to address the shortages of diverse clinicians. (See Growth story).



Health Care: MSM continues to build a bridge between health care and health. We recently launched a new Genomics Institute, which will “collect more samples from African Americans and Hispanic/Latino persons,” said President and CEO Valerie Montgomery Rice. The institute will focus on precision medicine using data “that is more reflective of the diversity of the population we’re serving,” she said. MSM received \$90,000 in funding from Amerigroup Georgia which will be used to support the critical health needs of underserved, vulnerable Georgians by funding the free, student-run H.E.A.L (Health Equity for All Lives) clinic at MSM, which aids the underserved, homeless and uninsured. Some of the funding will also go toward Telehealth kits, which contain essentials needed to remotely assess and diagnose patients who cannot visit a clinician for in-person care. In other areas of health care, MSM is also working on programs to increase vaccine confidence, address behavioral and mental health disparities with African Americans and minority youth, and tackle inequity in organ donation and transplantation.

Research: Morehouse School of Medicine leads rigorous basic science, clinical, community health, and policy research to improve the health and well-being of people everywhere across a broad spectrum of medical challenges. From cancer to neuroscience and HIV/AIDS, MSM uses an approach and scientific philosophy that intentionally promotes and supports the convergence of interdisciplinary work among scientists to stimulate exponential advances for the health of diverse communities. MSM has labeled this approach T^x (formerly called the Health Equity Tracker). Combining accurate data, new and evolving technologies and our inclusive approach to health equity, MSM remains a leader in the realm of medical research. Among the achievements in 2022, MSM’s Dr. Michael Powell, professor of microbiology, biochemistry & immunology, and his researchers have worked to identify a plant protein that shows promise in treating HIV/AIDS (see Global story, page 12). MSM’s professor of microbiology, biochemistry & immunology Dr. Jonathan Stiles received an NIH grant to develop new a new adjunctive therapy against cerebral malaria. And Dr. Melissa B. Davis, formerly of Weill Cornell Medicine in New York, has joined MSM to direct the new Genomics Institute. Also in August, researcher and health disparities expert Rick Kittles, PhD, joined MSM as the inaugural Senior Vice President for Research.

PARTNERSHIPS 4

The Path to Health Equity:

PARTNERSHIPS AND INNOVATION

OFFICE OF EXTERNAL PARTNERSHIPS AND INNOVATION



In July 2022, Morehouse School of Medicine began the process of introducing a new department, the Office of Partnerships and Innovation, with Senior Vice President Sandra Harris-Hooker named as its leader. “We of course have many partnerships and they’re growing. However, we’ve looked back and said we really needed to put some structure and governance to that,” explains Harris-Hooker.

“We set this office up so we could ensure our partnerships are established such that they align with the vision of the institution of advancing health equity locally, regionally, and globally.”

As with Vice President of the Office of Strategy and Institutional Effectiveness David Hefner’s work on the next strategic plan, Harris-Hooker’s office is beginning its work by confronting an important question about policies and practices: “We can say that we’re about health equity but are we really if we haven’t looked at other components that are inclusive of, but go beyond, the social determinants of health equity?” she asks. To ensure all partnerships indeed help MSM to advance health justice, the new office will evaluate prospective partners from the very beginning of a relationship. “We’re going to take it through the steps to work out what are the true opportunities for partnering with [a particular] entity, develop a business case for working with them and all of this will take place before we come down to the actual signing of a contractual agreement,” she says.

Her office will also continue to keep tabs on the processes and results of the partnerships as they move forward, including working to ensure MSM doesn’t miss out on other areas of development. “All of this happens with continuous communication and monitoring,” Harris-Hooker says.

These practices are already being put in place for two of Morehouse School of Medicine’s most important relationships, with Novartis and Chan Zuckerberg Initiative.

Coming out of the Novartis Foundation’s 10-year commitment to MSM and other Historically Black Colleges, Universities and Medical Schools (HBCMs) to co-create programs that address the root causes of systemic disparities in health outcomes, three new Centers of Excellence were created in 2022 at Morehouse School of Medicine.



NOVARTIS-MSM CENTERS OF EXCELLENCE



Clinical Trial Center of Excellence

As part of Novartis’ Beacon of Hope initiative, MSM opened the first Clinical Trial Center of Excellence to conduct studies by investigators and trial managers “relative to building capacity and a future for clinical trials where there would be an increased participation of African-Americans and other people of color,” says Harris-Hooker. Patrice Matchaba, president of the Novartis U.S. Foundation, looked to MSM to lead the way in generating these trials, “because that’s what our mission is,” says Harris-Hooker.

As an example, during the COVID-19 pandemic, “We really pushed, at Morehouse School of Medicine with the CDC and HHS, to make sure we could get accurate information to understand where we were seeing the highest level of cases and then what were the social determinants that were impacting that,” MSM President Dr. Valerie Montgomery Rice told *The Washington Post*. “One of the first things we had to do during the pandemic was make sure that we had accurate data.”

Dr. Priscilla Pemu heads up the first center at MSM, which will be duplicated at Howard, Meharry and Charles Drew medical schools. Pemu and her team have initiated a clinical trial evaluating cholesterol management in patients who’ve maxed out on their statin therapy and have also experienced a recent acute coronary syndrome event. “If you’re picking up a medication you’re going to use, you want to know if people like me, were they represented in the trials so I can expect the [same] results?” Pemu said.

Center of Excellence for Data Standards in Clinical Medicine

With all the technologies being used in health, from blood oxygen oximeters to facial recognition, Novartis backed MSM to create a center that could validate the data in people from underserved and communities of color. Dr. Marilyn Foreman and Dr. Muhammed Idris serve as co-directors. As Harris-Hooker points out, “If you’re checking oxygen, how valid is that data if it’s only been tested on majority populations?” MSM’s new center has been created to answer that question by vetting the data available.

Center of Excellence on Clinical and Environmental Health

This center, directed by Dr. Stephanie Miles-Richardson, is examining the impact climate and environment have on health. Along with the advanced program Frontiers in Environmental Science and Health (FrESH), funded in 2022 by a newly awarded NIH grant, the center will study the impacts of air, water, and other pollutants on human health.

Chan Zuckerberg Initiative

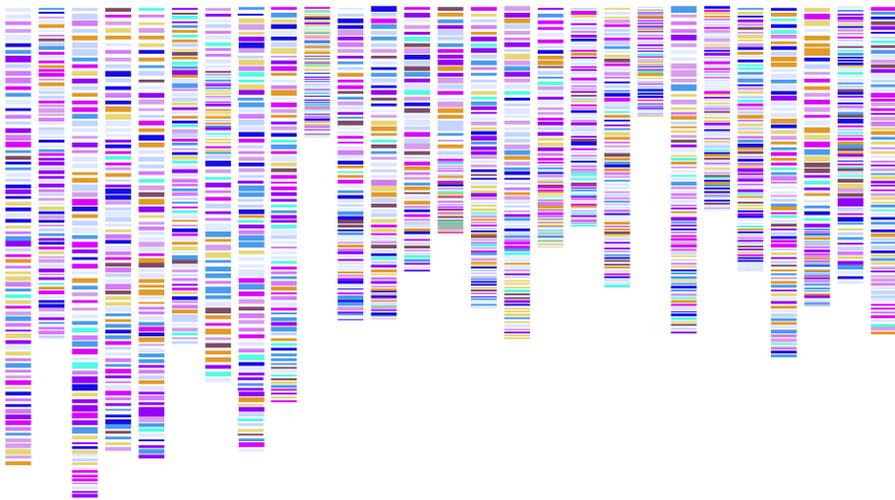


MSM forged a new partnership in 2022 with the Chan Zuckerberg Initiative (CZI) to focus on precision health. The partnership aims to address gaps in genomic research, and to create new tools and methods to prevent and treat disease and accelerate precision health, particularly for people of color.

With an \$11.5 million investment in MSM over the next five years (and equal investment at three other HBMCs), CZI's Accelerate Precision Health program will help expand

opportunities for students, support the creation of a new Master of Science program in Genetic Counseling, and provide for the hiring of new faculty — including **Dr. Melissa Davis, the first Georgia Research Alliance Distinguished Investigator who is the inaugural director of MSM's new Institute of Genomic Medicine.** "Minoritized populations have historically been underrepresented in the generation, analysis, and application of genomic data and this has perpetuated health disparities," Davis said. "My goal is to ensure that MSM is at the leading edge of the technology and leadership of overcoming this bias." CZI's funding will also provide for state-of-the-art tools for data handling, storage, and analysis.

Working closely with Dr. Hannah Valentine, CZI's senior science advisor, MSM's leadership strove to ensure the Chan Zuckerberg goals were in alignment with our institution. "What we did was look at an approach where we would build on the resources that we had here, and Chan Zuckerberg wanted to, within our institution, build a capacity to address precision medicine," said Harris-Hooker, who is confident in these initiatives' success. "These entities came to us and asked to partner because of our mission and vision, and they thought we would be primed to lead."



MSM 2022 Partnerships

Accelerate Precision Health/Chan Zuckerberg

Agnes Scott College

Amerigroup Foundation

Booker T. Washington High School

City of East Point

Compassionate Atlanta

The Deloitte Health Equity Institute

Gilead Sciences and Xavier University of Louisiana College of Pharmacy

HBCU Change & Asbury Automotive Group

NFL partnership

NIH grants Georgia Clinical & Translational Science Alliance

Novartis' Beacon of Hope

Virginia Mason Franciscan Health

Wellpath and HI-BRIDGE Health Information Exchange

Yale School of Medicine & Vanderbilt University Medical Center

Vested Interest

The Campaign

Donors

Leadership

Financial

Dear Morehouse School of Medicine Family and Friends,

As Morehouse School of Medicine approaches our 50th anniversary, the institution continues to expand and strengthen our global health equity efforts. From our campus in Atlanta to countries around the world, we are educating future healthcare learners and leaders, performing groundbreaking research into deadly diseases, and treating patients with exceptional, culturally humble care. As our enrollment and campus grow, so do our financial needs.

In 2021, Morehouse School of Medicine launched our capital campaign, IMPACT: The World Needs What We Do Best. The response from our supporters has been overwhelming, allowing MSM to exceed our original goal of raising \$225 million. With the campaign now in its third year, we are well on our way to our new goal of \$500 million for the people, programs, and pursuits that are woven into our mission.

But we can't do it alone.

Our purpose is clear: to serve the underserved, diversify the health and scientific workforce, and transform lives and livelihoods through improved health care. We are leading the creation and advancement of global health equity in a multitude of ways as a tested, trusted higher education establishment and community partner.

The world needs what we do best. And Morehouse School of Medicine needs your support as we transform our vision into reality.

Help Morehouse School of Medicine fulfill our mission and make an IMPACT by donating at Giving.MSM.edu. To learn more about our capital campaign, visit MSMIMPACT.com.

Sincerely,

Morehouse School of Medicine
Office of Institutional Advancement



IMPACT

▶ THE WORLD NEEDS WHAT WE DO BEST

THE CAMPAIGN FOR MOREHOUSE SCHOOL OF MEDICINE

DONOR HIGHLIGHTS



Hugh M. Gloster Society Celebration

In its first in-person event in two years, Morehouse School of Medicine's 12th Annual Hugh M. Gloster Society Celebration raised more than \$3 million on April 21, 2022. Named in honor of one of MSM's founders and a president of Morehouse College, the Gloster Society was established to help grow the institution's philanthropic efforts. Since 2015, the Society, which was founded in 2007, has raised nearly \$9.2 million to support scholarships for MSM students.

At the event, **Ted Decker and the Home Depot were recognized with the Louis C. Brown Vanguard Award.** Named for another of MSM's founders, the award recognized Decker and Home Depot's pioneering spirit, extraordinary vision, exceptional leadership and uncommon efforts that contribute to the health and well-being of vulnerable individuals and underserved communities.

Also, MSM established the IMPACT Awards to recognize organizations and individuals for their support of scholarships, partnerships, innovations, and/or community service. Honorees included Bloomberg Philanthropies, Goldman Sachs, CommonSpirit Health, Novartis and Novartis U.S. Foundation, Thermo Fisher Scientific and Color Health. Former MSM Board of Trustees member Dr. Zach Hall was also honored with a Health Equity IMPACT Award for his help in establishing the Drs. Peter and Marlene MacLeish Endowed Lectureship, which draws distinguished speakers, including Nobel Laureates, to the MSM campus.

Louis W. Sullivan, MD, MSM Founding Dean and President Emeritus, and his wife E. Ginger Sullivan made the largest donation to establish an endowed professorship in their name.

Other Notable Donors in 2022



Amerigroup: MSM received two grants from Amerigroup in 2022. In February, the Amerigroup Foundation donated \$1.725 million to be given over 36 months to help fund MSM's Narrowing the Maternal Health Inequity Gap through Training program. The grant funds respectful care training, training of perinatal professionals and a rural maternal health residency program to expand the maternal health workforce in Georgia and is being led by MSM's Center for Maternal Health Equity, run by Dr. Natalie Hernandez. Also, Amerigroup Georgia is sponsoring MSM health equity efforts with a \$90,000 donation across three grant sponsorships. A portion of the grants, \$40,000, will go to the student-run MSM free clinic, H.E.A.L.



Dr. Natalie Hernandez



Deloitte Health Equity Institute: Deloitte donated \$1.1 million to Morehouse School of Medicine to support our ongoing efforts to improve maternity care. The first phase of the partnership will focus on addressing the underlying causes of health inequities. "The work underway at Morehouse School of Medicine will help spread awareness across the country to activate change in the healthcare ecosystem," said Deloitte's U.S. Chief Health Equity Officer, Dr. Kulleni Gebreyes.



Federal Communications Commission (FCC): In February, the FCC awarded nearly \$1 million to MSM Healthcare to expand telehealth services to aid in providing quality medical care to diverse patient populations in Georgia, especially amid the ongoing COVID-19 pandemic. "This funding will equip patients with the devices needed to gather vital clinical information," said Richard A. Gooden, MBA, Telehealth Program Director in the Department of Family Medicine at MSM.



"I contribute to my cherished alma mater, Morehouse School of Medicine out of a deep sense of gratitude and pride. MSM is the foundation for all of my success and opportunities as a physician, administrator and health policy advocate. Its impact is amazing in changing lives and communities for all who have been fortunate and blessed to attend."

— Wayne Riley, MD, MPH, MBA
Morehouse School of Medicine Class of 1993
President, SUNY Downstate Health Sciences University, New York



HBCU Change: A gift of \$10,000 from HBCU Change included a match donation from Asbury Automotive Group, to benefit MSM's alumni scholarship initiatives. HBCU Change uses small change to make a large impact on HBCUs by collecting change from users' everyday credit or debit card purchases, rounding up to the nearest dollar. Each month, the app donates the change to the schools that users choose.



Propel Center: Coming out of the first-of-its-kind innovation and learning hub for the entire HBCU community founded by Apple and Southern Company, the Propel Center awarded a \$300,000 grant to MSM to promote urban farming and address food insecurity in Atlanta's West End community by leveraging digital technology and other resources.

"I am humbled and truly grateful to Morehouse School of Medicine. They were my beacon of hope in 1979! Against all odds, I entered not only a medical school in the United States, but its charter class, which is an incredible accolade. I have always supported and will continue to support Morehouse School of Medicine because it changed the trajectory of my life and my career path – if there was no MSM, there would be no Dr. Harjee. I am making good on my promise to the mission of the school: to serve the underserved. That was my conversation, agreement, and promise when I interviewed with Dr. Louis Sullivan in the Spring of 1979. I owe the school a huge symbolic debt and will be eternally grateful. Thank you again."

— Gulshan Harjee, MD
Morehouse School of Medicine Class of 1980
2023 Gloster Society Awardee for Excellence in Community Service

"I love Morehouse School of Medicine because of the mission and the people who are living the mission daily."

— Earl Y. Young, MD
Morehouse School of Medicine Class of 1996



Novartis US Foundation:
See Partnerships, page 37



Chan Zuckerberg:
See Partnerships, page 38



U.S. Department of Health & Human Services (HHS): In February, MSM received a nearly \$9.7 million grant from the federal government to create HealthWorks, a program to increase vaccine confidence in Georgia and Tennessee through targeted, culturally competent and outreach education, with a focus on communities of color.



Wellpath: MSM received a \$25,000 donation from medical and behavioral health provider Wellpath in honor of National Physicians' Week and National Doctors' Day in April 2022. The funds will go in the form of \$1,000 grants to 25 MSM clinical faculty members and healthcare practitioners to assist with professional development and educational opportunities.

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Executive Vice President of Health Affairs and Dean



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Harvey Green
Senior Vice President, Office of Institutional Advancement



Sandra Harris-Hooker, PhD
Senior Vice President for External Partnerships and Innovation



David Hefner, EdD
Vice President, Strategy and Institutional Effectiveness



Taya Jackson Scott, EdD
Chief Innovation Officer

“The communities we serve are not monolithic, meaning they are not all Black or all poor. Yet the common thread is that for numerous reasons, some outside of our control, we are among the oppressed, which is to say systemically harmed by another group or class of greater systemic power. This is not victimhood but rather truth. I am therefore not outside the communities we serve but rather among them, working tirelessly with others to solve this false social construct that nonetheless has had dire implications.”

— David Hefner, EdD



Rick Kittles, PhD
Senior Vice President of Research



Cindy Lubitz
Chief People Officer



Creshema Murray, PhD
Chief of Staff



Katherine Napier, CPA
Vice President, Finance and Chief Financial Officer



Michael Rambert, JD
General Counsel and Corporate Secretary

“I am the communities that we serve. I recently experienced an unexpected health scare that placed healthy equity and the importance of culturally competent care at the forefront of my experience. We offer 14 degree programs that not only bridge health and healthcare but we also educate and train practitioners who provide world-class, critical clinical care, engage in innovative research discovery, and transform communities through policy and engagement. I am a testament to the fact that health care is not one size fits all and that our learners are prepared to address the ever-changing needs of the community.”

— Creshema Murray, PhD

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Frank Jones, MD, MPH
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2022-2024
Morehouse School of
Medicine MD, Class of 1991



**Carey Roth Bayer, EdD,
MEd, BSN, RN, CSE**
Professor, Community
Health and Preventive
Medicine
(Faculty Representative)



Jamil Joyner
Morehouse School of Medicine
Student Government Association
President
(Student Representative)



Kimberly S. Greene
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Chief Executive Officer,
Southern Company Gas



Lawrence V. Jackson
Chairman, SourceMark LLC



Douglas Love, Esq.
President and CEO, Annex-
on Biosciences



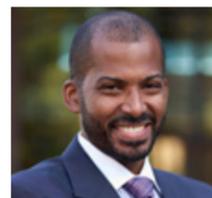
Thomas N. Malone, MD
Private Practice Physician,
OB/GYN



Glenn W. Mitchell, III
Managing Partner,
Ernst & Young LLP



Sylvester McRae, MD
Assistant Professor, Director
of St. Francis OBGYN
Physician Partners



Woodrow W. McWilliams III, MD
John B. Amos Cancer Center,
Radiology and Oncology



Kimberly Evans Paige
Executive Vice President and
Chief Marketing Officer, BET
Networks and Live Events

FINANCIAL OVERVIEW

Message from the Vice President of Finance and Chief Financial Officer

In reflecting on fiscal year 2022, Morehouse School of Medicine, Inc. and Affiliates (“MSM” or the “School”) continues to expand with the introduction of new educational programs, partnerships, and innovative initiatives consistent with its mission.

Morehouse School of Medicine is committed to its students and educating healthcare professionals to serve Georgia and our nation. During the fiscal year 2022, we experienced an increase in enrollment with a total fall enrollment of 753 students in academic year 2021-2022, a 10.7% increase over the prior academic year. We realized growth in enrollment with the introduction of Online Master of Science programs, the Master of Science in Health Informatics program, and the Accelerated Master of Science in Medical Sciences program. Additionally, the Doctor of Medicine program reached enrollment of 452 students with an entering class of 109 students.

We are committed to investing in our students and reducing student educational debt. During fiscal year 2022, \$13.4 million in scholarships were awarded. As part of this amount, we were able to provide institutional-supported scholarships of \$5.6 million, thanks to the generosity of our donors. Additionally, Bloomberg Philanthropy funding of \$5.4 million further assisted our students with debt reduction during fiscal year 2022. Other donor support amounted to \$2.4 million. MSM has not increased tuition rates in seven years since Academic Year 2014-2015.

As we grow our class size, Morehouse School of Medicine continues to invest in faculty and staff to support our students and our mission. MSM ended the 4th quarter of fiscal year 2022 with a faculty and staff headcount of 1,414.

Our partnerships continue to support MSM's mission, as we opened three undergraduate clinical rotation training sites during fiscal year 2022 in Chattanooga, TN, Lexington, KY, and Seattle, WA as part of our More in Common Alliance partnership.

Morehouse School of Medicine continued to invest in capital resources as we focused on our campus masterplan to support our mission. We continued the revitalization of our campus with renovations of the Hugh Gloster Building, the Animal Lab, the BSL3 Lab, and the Medical Education Building.

The school closed fiscal year 2022 in strong financial health, with an increase in net position of \$28.2 million adding to its total net assets amounting to \$267.1 million with 67% representing net asset with donor restrictions and 33% representing net assets without donor restrictions.

Although MSM experienced a loss of \$5.4 million in investment earnings due to market volatility, MSM's investment portfolio remains strong with \$144.1 million in investments at fair market value exclusive of a \$20 million investment in restricted cash. The school's endowment distribution policy smooths the impact of an annual



volatile capital market by providing a distribution of up to 5% of the fair market value of the endowment using a three-year moving average. Based on the investment policy, the endowment distribution amounted to \$4.4 million during fiscal year 2022, which supports research capacity building, student scholarships, and chair packages.

We continue to focus on diversifying revenue streams. Proportionally, the highest portion of revenue consists of 56.9% in federal, state, and local revenue, 28.6% in private gifts, grants, and contract revenue, 7.7% in net tuition and fees revenue, and 6.9% in faculty practice plan revenue. The diversification of revenue has enabled MSM to be financially stable through adverse economic challenges as the institution is not heavily dependent on tuition and fees.

Our research portfolio remains strong as our researchers address important challenges that have societal impact with research initiatives with the National Institute of Health, the Health Resources and Services Administration, the Office of Minority Health, the Centers for Disease Control and Prevention, and the National Science Foundation to name a few. MSM's total assets increase by \$25 million primarily as a result of pledges, accounts receivable, and partnership contributions.

MSM ended fiscal year 2022 with zero long-term debt with funding from the Coronavirus Aid, Relief and Economic Security Act (i.e., CARES Act) during fiscal year 2021 and the defeasance of the remaining debt of \$2.5 million during fiscal year 2022.

Our financial plan continues to focus on its strategic initiatives maintaining and growing the school's financial position, establishing strategic partnerships, and increasing financial stability while achieving our mission as we focus on “Leading the Creation and Advancement of Health Equity.”

Overall, MSM concluded the fiscal year 2022 in a strong financial position. The continued financial stability of the school and our fiscally disciplined approach has positioned MSM to remain financially strong. The future financial success of MSM relies on the organization continuing to meet its strategic plan vision, goals, and objectives. As our current strategic plan draws to an end, we began working on a new three-year strategic plan during fiscal year 2022. Investments from donors and federal, state, and local governments will continue to build on the strengths of MSM in delivering excellent education, research, health care, and community partnerships. Our continued commitment to operational excellence will help MSM strive for sound financial policy and practices to produce results that will benefit the entire MSM community.

Katherine Napier, EDB, CPA, MBA, CISA, CIA

Morehouse School of Medicine, Inc., and Affiliate
Consolidated Statements of Financial Position

June 30,	2022	2021
Assets		
Cash and cash equivalents	\$ 8,112,856	\$ 9,283,049
Restricted cash and cash equivalents	\$ 20,000,000	\$ -
Accounts receivable, net (Note 4)	29,162,462	17,621,065
Pledges receivable, net (Note 5)	10,576,208	5,000,954
Loans receivable, net of allowance for doubtful accounts of \$17,842	188,218	196,166
Patient accounts receivable, net	3,474,358	6,872,521
Other receivables	1,795,390	652,577
Investments, at fair value (Note 3)	144,135,276	157,560,946
Other assets	3,151,320	2,854,786
Right-of-use assets	28,366,917	28,975,084
Property and equipment, net (Note 7)	97,406,122	92,292,457
Total Assets	\$ 346,369,127	\$ 321,309,605
Liabilities and Net Assets		
Liabilities		
Accounts payable	\$ 8,742,285	\$ 7,489,821
Accrued expenses and other liabilities	17,999,885	15,949,278
Deferred revenue and refundable advances	22,817,797	26,386,867
Operating lease liabilities (Note 8)	29,441,131	29,730,999
Long-term debt payable (Note 10)	-	2,590,143
Government advances for student loans (Note 11)	303,362	303,362
Total Liabilities	79,304,460	82,450,470
Net Assets		
Without donor restrictions	89,151,687	87,566,473
With donor restrictions	177,912,980	151,292,662
Total Net Assets	267,064,667	238,859,135
Total Liabilities and Net Assets	\$ 346,369,127	\$ 321,309,605

See accompanying independent auditor's report and notes to consolidated financial statements.

Morehouse School of Medicine, Inc., and Affiliate Consolidated
Statements of Activities and Changes in Net Assets

Year ended June 30, 2022	Without Donor Restrictions	With Donor Restrictions	Total
Revenues and Other Additions			
Tuition and fees, net of student aid of \$5,646,381	\$ 20,734,261	\$ -	\$ 20,734,261
Federal, state, and local government grants and contracts (Note 13)	153,547,451	-	153,547,451
Private gifts, grants, and contracts	43,570,534	33,651,973	77,222,507
Faculty practice plan	18,534,555	-	18,534,555
Investment income	(2,807,908)	(2,612,084)	(5,419,992)
Other sources	5,269,697	-	5,269,697
Net assets released from restrictions	4,419,574	(4,419,574)	-
Total Revenues and Other Additions	243,268,164	26,620,315	269,888,479
Expenditures			
Education and general:			
Instruction	77,245,097	-	77,245,097
Research	32,439,336	-	32,439,336
Public service	21,148,172	-	21,148,172
Academic support	16,901,085	-	16,901,085
Student services	15,289,248	-	15,289,248
Institutional support	51,140,122	-	51,140,122
Facilities operations and maintenance	6,576,780	-	6,576,780
Faculty practice plan	20,943,107	-	20,943,107
Total Expenditures	241,682,947	-	241,682,947
Change in Net Assets	1,585,217	26,620,315	28,205,532
Net Assets, beginning of year	87,566,473	151,292,662	238,859,135
Net Assets, end of year	\$ 89,151,690	\$ 177,912,977	\$ 267,064,667

See accompanying independent auditor's report and notes to consolidated financial statements.

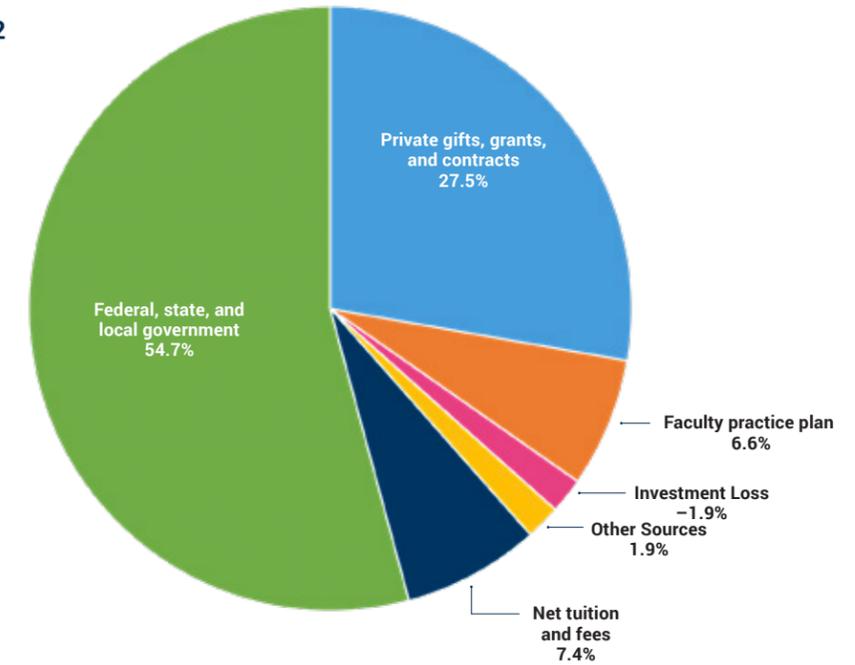
**Morehouse School of Medicine, Inc., and Affiliate
Consolidated Statements of Cash Flows**

Year ended June 30,	2022	2021
Operating Activities		
Change in net assets	\$ 28,205,532	\$ 58,682,271
Adjustments to reconcile change in net assets to net cash provided by (used in) operating activities:		
Depreciation and amortization	5,427,274	4,943,433
Extinguishment of long-term debt payable	-	(34,127,388)
Non-cash lease expense	472,589	1,615,869
Amortization of debt issuance cost	-	546,004
Net realized and unrealized loss on investments	8,096,493	(24,920,914)
Loss on disposal of property and equipment	49,341	179,259
Gifts and grants restricted for long-term investment	(415,344)	(981,390)
Change in operating assets and liabilities:		
Accounts receivable, net	(11,541,397)	(2,358,671)
Pledges receivable, net	(5,575,254)	267,044
Patient accounts receivable, net	3,398,163	(4,839,283)
Other receivables	(1,142,813)	2,285,508
Other assets	(296,534)	145,084
Accounts payable	1,252,464	2,408,062
Accrued expenses and other liabilities	2,050,607	3,645,552
Deferred revenue and refundable advances	(3,569,070)	20,170,886
Operating lease liabilities	318,300	(859,954)
Net cash provided by (used in) operating activities	26,730,351	26,801,372
Investing Activities		
Net change in loans receivable	7,948	500,581
Purchases of investments	(32,176,355)	(63,749,204)
Proceeds from sale of investments	37,032,943	55,996,391
Purchases of property and equipment	(10,590,281)	(13,598,878)
Returns of government advances for student loans	-	(1,246,909)
Net cash (used in) provided by investing activities	(5,725,745)	(22,098,019)
Financing Activities		
Net payments on borrowings under lines of credit arrangements	-	(14,835,676)
Repayment of long-term debt payable	(2,590,143)	(906,016)
Proceeds from long-term debt payable, net of debt issuance costs	-	15,005,336
Gifts and grants restricted for long-term investment	415,344	981,390
Net cash provided by financing activities	(2,174,799)	245,034
Net Increase in Cash and Cash Equivalents	18,829,807	4,948,387
Cash and Cash Equivalents, beginning of year	9,283,049	4,334,662
Cash and Cash Equivalents, end of year	\$ 28,112,856	\$ 9,283,049
Supplemental Disclosure of Cash Flow Information:		
Cash paid for interest	\$ 63,982	\$ 827,535
Right-of-use assets obtained in exchange for lease liabilities	\$ 29,441,131	\$ 30,590,953

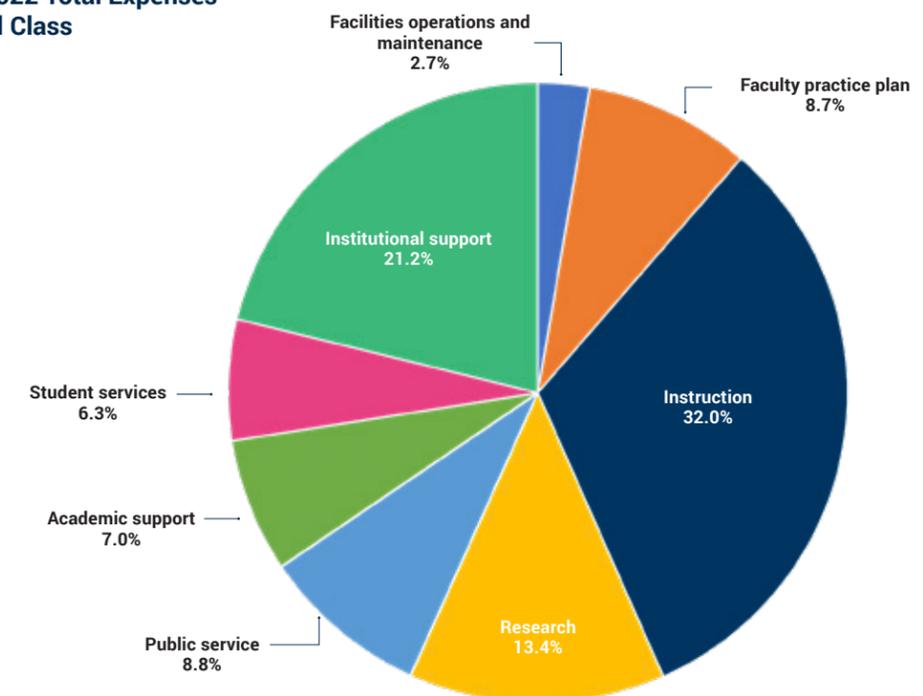
See accompanying independent auditor's report and notes to consolidated financial statements.

The charts below detail the income and spending patterns of MSM in FY 2022. MSM continues its strategy to increase its class size. This year MSM hit the 753 student target, accounting for over \$1.8 million in increased tuition revenue. Development efforts continued strong in FY 2022, targeting scholarship, facility, and the CommonSpirit Health partnership. Expenditures totaled \$241.7 million in FY 2022, salary and wages are 55.6% (\$134.3 million) of total expenses, while other operating expenditures total \$107.4 million. Our goal over the next five years is to review all people, process, and technology for increased efficiencies, which will enable the organization to invest in the mission areas – education, research and clinical services

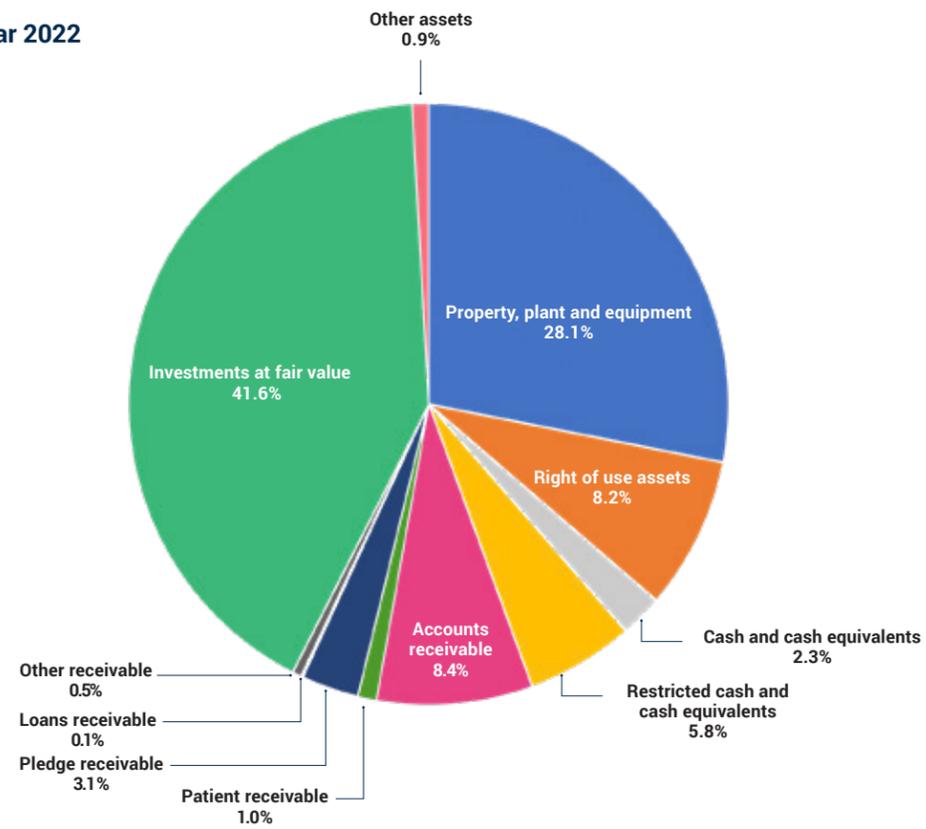
**FY 2022 REVENUES
Total Revenue Fiscal Year 2022**



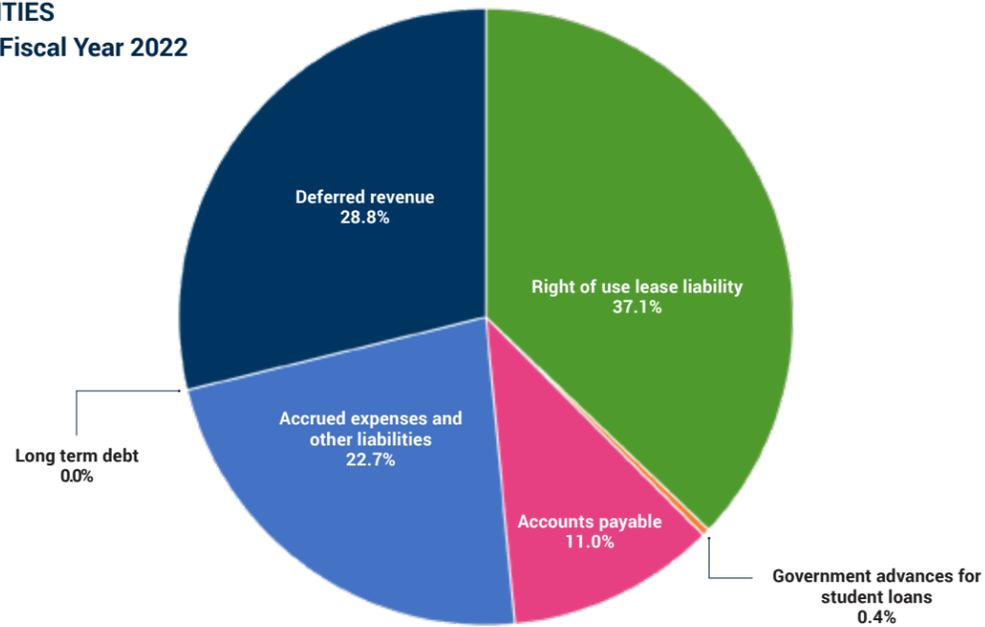
**FY 2022 EXPENSES
Fiscal Year 2022 Total Expenses by Functional Class**



FY 2022 ASSETS
Total Assets Fiscal Year 2022



FY 2022 LIABILITIES
Total Liabilities Fiscal Year 2022



WOVEN

Morehouse School of Medicine is strengthening our existing bonds as we expand our global health justice mission...



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