The mission of the West Virginia School of Osteopathic Medicine (WVSOM) is to educate students from diverse backgrounds as lifelong learners in osteopathic medicine and complementary health related programs; to support and develop graduate medical education training; to advance scientific knowledge through academic, clinical and basic science research; and to promote patient-centered, evidence based medicine. WVSOM is dedicated to serve, first and foremost, the state of West Virginia and the health care needs of its residents, emphasizing primary care in rural areas.
I am excited, humbled and honored to serve WVSOM as chairman of the Board of Governors. Every day, month and year brings new opportunities and challenges. WVSOM serves students, the community and the medical profession with passion and expertise. Our employees are second to none, providing a close-knit family atmosphere and a highly trained professional team of administrators, faculty, technicians and support staff.

Our facilities present a magnificent campus and provide students a pleasing and practical atmosphere in which to pursue their medical studies. As we continue to expand and improve these facilities, our efforts will attract more top applicants and enhance the experience of current students.

WVSOM greatly enhanced its community presence in 2019. The new Clingman Center for Community Engagement in Lewisburg and the expanding Statewide Campus system provide great examples of WVSOM reaching beyond our beautiful campus. Our administrators, led by our president, Dr. James Nemitz, continually attend and present at various meetings and events nationally and throughout the most beautiful of the 50 states, Almost Heaven, West Virginia.

Academically and medically, our faculty members excel. Many of our teaching staff publish papers and present new medical research at seminars and conventions throughout the U.S. Our faculty members contribute to medical textbooks and oversee exciting national and international workshops. WVSOM is in the process of creating a research corporation that will increase the school’s presence in the world of medical research.

WVSOM plans to aggressively pursue new certification programs in 2020. These programs will enhance WVSOM’s prestige, financial strength and sustainability as one of the United States’ great medical schools. New programs will provide our students additional opportunities to gain successful and meaningful employment in the medical profession.

WVSOM has been blessed richly by two individuals, Dr. Nemitz, our current president, and Dr. Michael Adelman, our president emeritus. We continue to enjoy two great leaders. Their passion, vision and dedication to WVSOM would be difficult to match. Dr. Adelman’s Emmy award-winning television program Abracadabra brings visibility and praise to WVSOM. Dr. Nemitz is spearheading efforts to add new and exciting programs to WVSOM that will enhance and advance the school’s bright future. We extend great gratitude and applause to Dr. Nemitz and Dr. Adelman.

WVSOM is family. WVSOM is academically and financially strong, physically beautiful and will not rest on its laurels. Our school wants to wake up every morning and ask, “How can we achieve more?”

Sincerely,

Steven C. Sarver
Time moves quickly for hard-working medical students. It moves just as quickly for those of us whose job is to ensure that those students receive the best education possible. One year ago I was just beginning my journey as the seventh president of WVSOM, and the months have breezed past so rapidly that it feels like it was just the other day.

About this time last year, I announced the kickoff of WVSOM’s “Living Our Mission” campaign, with the goal of inspiring our students, faculty, staff and alumni to “pay it forward” by helping others through community service. I’m humbled that the initiative has been such a success, with so many members of the WVSOM community volunteering their time, effort and resources to help make the world a better place.

“Living Our Mission” means that we’ve had former faculty members and students who supported our local food pantries. It means that the WVSOM Alumni Association provided snacks for families staying at the Charleston Area Medical Center (CAMC) Foundation’s Hospitality House while their loved ones were treated. And it means that, as they do every year, some of our students spent their spring break traveling to places in need of assistance, such as Peru, where they were part of a group that treated about 1,300 patients in less than a week’s time.

Of course, the past year has also been filled with accomplishments and academic progress. In August 2018, WVSOM’s Healthy Children’s Initiative won an Ohio Valley Regional Emmy Award for Abracadabra, the children’s educational television series we produce in partnership with West Virginia Public Broadcasting. Later in the academic year, we offered our first-ever elective courses in the growing field of culinary medicine. And in June 2019, WVSOM announced a collaboration with CAMC to establish a regional medical school campus in Charleston, W.Va., that will ensure our students have ample opportunities for in-state clinical rotations and allow WVSOM to have a strong presence in West Virginia’s capital.

WVSOM’s administration and staff spent time this past year preparing for a comprehensive visit by the Higher Learning Commission (HLC) as part of our re-accreditation process. Two months after the 2018-19 academic year ended, we learned that the HLC has granted the school continued accreditation for the next five years. I’m proud that WVSOM has succeeded in this aspect of the school’s strategic plan to fulfill its mission of educating lifelong learners.

Those are just a few of the achievements from the past year that have helped WVSOM cement its reputation at the forefront of osteopathic medical education. Many more can be found within the pages of this annual report. We’re already working to make sure the next year is filled with just as many successes, so rest assured that the accomplishments featured in this publication are just a glimpse of all that we do.

Best regards,

James W. Nemitz, Ph.D.
GET TO KNOW OUR LEADERSHIP TEAM

James W. Nemitz, Ph.D.
President

Michael D. Adelman, D.O.,
D.P.M., J.D.
President Emeritus

Craig Boisvert, D.O., FACOFP
Vice President for Academic
Affairs and Dean

Larry Ware, M.B.A., C.P.A.
Vice President for Finance
and Facilities

Leslie W. Bicksler, MSW
Vice President of
Human Resources

Edward Bridges, Ph.D.
Vice President for
Administration and
External Relations

Marilea Butcher
Vice President for
Communications and
Administrative Affairs

Jeffrey M. Shawver, J.D.
Vice President for Legal and
Governmental Affairs and
General Counsel

Drema G. Mace, Ph.D.
Vice President for
Community Engagement
and Development

Marietta D. Chaney
Administrative Assistant
Senior

Debbie Green
Administrative Assistant
Senior

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WVSOM’S CURRENT BOARD OF GOVERNORS

Board of Governors members are appointed by the governor of West Virginia and bring to the table their expertise in their career field. WVSOM is honored to have them serve in this capacity.

Steven C. Sarver, Chair
Robert Holstein, D.O., Vice Chair
Cheryl D. Schreiber, Secretary
Gregory A. Burton, Member at Large
Charles Davis, D.O., Member at Large
J. Fred Earley II, Member at Large
John Gerlitz, D.O., Faculty Representative
Sherri L. Miller, Staff Representative
Gary L. Poling, D.O., Member at Large
Jubel Puthusseryll, Student Representative
David L. Ramsey, Member at Large
INSTITUTIONAL AWARDS AND RECOGNITION

In addition to our students’ success, progress can be measured in a variety of ways. Because our mission is securely aligned with serving others, it is significant to note that WVSOM is number one in the state, the region and the nation in the percentage of graduates who practice rural medicine. Rural care supports some of the most underserved areas in the country.

WVSOM has been recognized as one of the NATION’S TOP MEDICAL SCHOOLS for 21 consecutive years.
U.S. News & World Report

WVSOM was recognized for the seventh time as a GREAT COLLEGE TO WORK FOR.
The Chronicle of Higher Education

$53.5 MILLION PER YEAR IS THE ECONOMIC IMPACT ASSOCIATED WITH WVSOM and its affiliated Robert C. Byrd Clinic and WVSOM Foundation, as well as the expenditures of students, faculty and staff.

WVSOM is number one in providing PRIMARY CARE PHYSICIANS FOR WEST VIRGINIA.
W.Va. HEPC Health Sciences Report Card

WVSOM is number one in the nation among all medical schools GRADUATING PHYSICIANS WHO PRACTICE IN RURAL AREAS.
Academic Medicine

WVSOM is number one in the nation graduating PRIMARY CARE PHYSICIANS WHO PRACTICE IN RURAL APPALACHIA.
Academic Medicine
A NEW PRESIDENT:

INSTALLATION CEREMONY CELEBRATED NEMITZ AS WVSOM’S SEVENTH PRESIDENT

A huge celebration took place on the WVSOM campus during the installation ceremony of James W. Nemitz, Ph.D., the school’s seventh president.

An installation ceremony is an official recognition of a school’s change in presidents. The formal ceremony included words of support from the WVSOM Board of Governors’ chairman at the time, Charles Davis, D.O., and Alumni Association President Robert Olexo, D.O. Music was provided by the Greenbrier Valley Chorale and the Greenbrier Academy for Girls.

The ceremony also focused on celebrating the three themes of “honoring our heritage, living our mission and engaging our future.” WVSOM was founded on modest beginnings, but has risen to national prominence due to the dedicated hard work of many. Nemitz reiterated the importance of the past while also looking toward the future.

WVSOM’s president explained the “Living Our Mission” campaign that encourages students, faculty, staff and alumni to take care of themselves and to help others by doing community service and sharing the work they are doing to inspire others.

“We are a public institution and we are here to serve this great state and take care of the citizens of West Virginia.

We have to live our mission every day.

Many of our alumni are going back to their communities and serving others. We should be taking care of our neighbors and communities. We need to embrace diversity and differences of opinion and to celebrate differences and care for our communities,” Nemitz said.

“Living Our Mission” bandanas were given to all installation ceremony guests to highlight the sense of service embraced by the WVSOM community.

“These are a symbol of what I’m going to challenge you with — to go out there and do something for somebody else,” Nemitz said.

The informal celebration that followed included music by the Ramp Supper Band and RiverJam Band, dancing and a West Virginia-focused dinner that paid homage to Gwen Clingman, owner of the former Clingman’s restaurant in downtown Lewisburg. Much of the early business of WVSOM was conducted in her restaurant, and she is credited by many with providing nourishment of the body and soul to many students and their families over the years. WVSOM continues Clingman’s legacy through the Gwen Clingman Scholarship award for a graduating student who has demonstrated a commitment to serve people and classmates unselfishly and humbly through community service.
FACULTY AND STAFF

During the 2018-19 fiscal year, WVSOM’s faculty and staff focused on the importance of honoring the school’s heritage, living the mission each day and embracing the future of the institution. In the past year, the school’s Board of Governors honored WVSOM’s heritage by awarding four retiring faculty members professor emeritus status. The school’s employee retention rate of 94.5 percent (excluding retirements and deaths) proved it is living its mission to the best of its ability. Looking toward the future, WVSOM hired 31 new employees during the fiscal year, while awarding $27,739.65 in educational development funds to 15 employees. Six employees graduated from degree programs during the year.

AS OF JUNE 30, 2019, WVSOM HAD
31 EMPLOYEES WITH AT LEAST 20 YEARS
OF SERVICE TO THE SCHOOL.
FACULTY EMERITUS

The honor of emeritus status is granted at retirement selectively in recognition of meritorious service. The faculty member is nominated by their department chair and vice chair, and the faculty council reviews the nomination before sending it to the faculty, who vote on the candidate. Their recommendation for emeritus status is forwarded to the dean and then from the dean to the president for approval. Lastly, the WVSOM Board of Governors approves the faculty member for professor emeritus status.

EDUCATIONAL DEVELOPMENT FUNDING

Since the initiation of the Educational Development program in 2010, 55 employees have benefited. The goal is to enhance professional knowledge or skills and improve the academic and professional credentials of employees. Funding is provided to staff in pursuit of degrees, non-degree studies, research, presentations and other academic or professional programs that would not normally fall under funds awarded for job-related professional development.

55 EMPLOYEES HAVE ENHANCED THEIR PROFESSIONAL KNOWLEDGE OR SKILLS THROUGH THE EDUCATIONAL DEVELOPMENT PROGRAM SINCE 2010

2018 - 2019 EDUCATIONAL DEVELOPMENT FUNDING ALLOCATION

$27,739.65
FOR 15 EMPLOYEES

<table>
<thead>
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<th>Degree Type</th>
<th>Number</th>
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<tbody>
<tr>
<td>Master’s Degree</td>
<td>7</td>
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<tr>
<td>Bachelor’s Degree</td>
<td>7</td>
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<tr>
<td>Continuing education/certification</td>
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</table>

Participating staff received up to $2,000 per fiscal year for educational development.
Our rigorous educational program produces physicians who are dedicated, disciplined and committed to mastering knowledge and embracing a compassionate bedside manner. The patient-centered, evidence-based curricular structure offers a clinically integrated approach to medical education.
FIRST AND SECOND YEARS:
PATIENT PRESENTATION CURRICULUM

WVSOM’s Patient Presentation Curriculum (PPC) integrates the basic and clinical sciences and stresses student engagement, allowing students to take an active role in their education. The PPC is centered on the most common ways patients present to their physician. Faculty use case openings and closings to engage students in discussions about presenting symptoms of the patient, physical signs they may expect, what the cause could be and what disease processes are occurring. The use of flipped classrooms, Team-Based Learning (TBL) and application exercises allow students to apply the knowledge they are learning.

In clinical labs, students acquire and hone the skills necessary to treat patients. During Clinical Skills 1, students learn to conduct patient interviews and perform physical exams on patients. The Clinical Skills 2 course allows students time in provider offices and the opportunity to participate in skills labs such as scrub, suture and ultrasound. The Osteopathic Principle and Practice course teaches students the skills to evaluate, diagnose and treat patients using osteopathic manipulation. Sessions with standardized patients, 24 high-fidelity human-patient simulators and interprofessional experiences further enhance the learning experience.

ACADEMIC SUPPORT

The West Virginia School of Osteopathic Medicine offers several programs that support academic performance.

ACADEMIC SUPPORT PROGRAMS AT WVSOM INCLUDE:

NEW! Faculty coaching program
► Academic Support and Intervention Resources
► Clinical Evaluation Center
► Center for International Medicine and Cultural Concerns
► Exam Center
► Library services
► Office of Assessment and Educational Development
► Office of National Boards
► Rural Health Initiative
► Peer Mentor Program
► Peer Tutoring Program (accredited through the College Reading and Learning Association)

PATIENT-CENTERED FROM THE START:

Flipped classrooms
Team-Based Learning
Application exercises
Clinical skills labs
Osteopathic manipulation integration
Cadaver dissection
Standardized patients
Human-patient simulators
Interprofessional experiences

136

STUDENT MENTORS FROM THE CLASS OF 2022 ASSISTED STUDENTS FROM THE CLASS OF 2023

THE WVSOM PEER MENTOR PROGRAM

Soon after arriving on campus for the fall semester, first-year students are introduced to the Peer Mentor Program. Prior to orientation, first-year students are each assigned a second-year student to assist them in making the transition to medical school. During the 2018-19 fiscal year, 136 members of the second-year class (Class of 2022) formally mentored the entire first-year class (Class of 2023). Due to the increased efforts to build rapport and camaraderie between the first- and second-year classes, many students established mentoring relationships on an informal basis as well.
SIMULATION WEEK

WVSOM hosted its first ever faculty “Sim War” at its Clinical Evaluation Center. Teams consisted of basic science faculty and clinical faculty. The teams practiced their roles in a trauma scenario before competing against each other. The objective was to improve “closed-loop” communication in a health care team. Although one team was the winner, both teams were successful in their timing for patient stabilization, demonstrating how hospital teams can improve patient outcomes by practicing scenarios as a team.

Healthcare Simulation Week celebrates professionals who use simulation to improve the safety, effectiveness and efficiency of health care delivery and is sponsored by the Society for Simulation in Healthcare, by whom WVSOM is accredited. Simulation-based training encompasses a range of experiences, including the use of task trainers, human-patient simulators and learning various technical procedures that range from suturing to delivering babies. It also includes standardized patients, individuals who play the role of patients.
ULTRASOUND CURRICULUM

WVSOM has completed its second year of offering an ultrasound elective to students during the summer between their first and second years. This course offers a mix of activities, including directed learning activities to integrate anatomy, physiology and sonography for normal and abnormal presentations. In-class time includes practicing scanning, observing OB-GYN ultrasounds and discussing journal articles. The elective culminates with each student making a case presentation that includes ultrasound.

Ultrasound technologies are useful for bedside diagnoses and procedures and for improving patient care while minimizing unnecessary risks to the patient.

INTERPROFESSIONAL EDUCATION

WVSOM offers a variety of health care team experiences at the Clinical Evaluation Center. Nursing, pharmacy and physician assistant students participate with our medical students. Collaborating institutions include Bluefield State College, West Virginia University Institute of Technology, University of Charleston and West Virginia Wesleyan College.

This year, we added “virtual” interprofessional education activities that incorporate aspects of a telehealth visit and consultation. These activities occurred with pharmacy students from University of the Pacific (California) and Shenandoah University (Virginia).
In their third and fourth years, students are assigned to one of seven regions in the state where 22 hospitals serve as base sites for their medical education. Additionally, 36 other hospitals in the region serve as training sites for third- and fourth-year students.

Within the Statewide Campus (SWC), third-year students fulfill the majority of their core clinical rotations, which include eight weeks each of family medicine and internal medicine, plus four weeks each of general surgery, psychiatry, pediatrics, OB-GYN and emergency medicine. In their third year, students complete four weeks of an elective and four weeks of a Dean’s Selective course.

In addition, WVSOM’s Rural Health Initiative provides students interested in rural medicine the chance to enhance and expand their rural rotation experiences. Students take advantage of international experiences through clubs and elective rotations.

In their fourth year, students are required to complete rotations of eight weeks each in surgery, internal medicine and family medicine. Additionally, students must complete four weeks of pediatrics and 10 weeks of electives. The fourth year may be completed at their current Statewide Campus site, another SWC site or an approved site of their choosing.

**BENEFITS OF STATEWIDE CAMPUS**

- **Benefits for students**
  
  The Statewide Campus gives students an opportunity to see quality patient care provided in rural communities. The program also emphasizes the importance of establishing strong doctor-patient relationships and of helping patients navigate the health care marketplace to receive the care they need. Students have the opportunity to work with resident physicians.

- **Benefits for West Virginia**
  
  When students complete their rotations in West Virginia, they are more likely to complete a residency in West Virginia and, ultimately, they are more likely to stay in West Virginia as physicians.
In 2009, WVSOM formally established the WVSOM Center for International Medicine and Cultural Concerns (CIMCC). The CIMCC provides students the opportunity to participate in global medical training experiences while ensuring academic integrity.

During the 2018-19 academic year, 17 students participated in a WVSOM-approved international experience. WVSOM prides itself on producing first-class, dedicated physicians, with its main mission focused on rural and primary care medicine for the residents of West Virginia and the Appalachian region.

WVSOM also recognizes the importance of creating well-rounded, culturally sensitive physicians who are aware of global health issues.

Prior to 2009, fewer than three WVSOM students took part in international rotations. Since then, 389 students have participated in international medical experiences, typically in rural, underserved areas. These experiences occurred either as required and elective rotations or through the DOCARE and the Christian Medical and Dental Association (CMDA) Club medical service trips during spring breaks.
WVSOM STUDENTS PARTICIPATED IN INTERNATIONAL MEDICAL EXPERIENCES

Rotation sites and number of students who visited each site between 2009 and 2019.

MEDICAL EXPERIENCES IN
25 COUNTRIES

HOLISTIC CARE
VISION CARE
ORAL HEALTH CARE
MEDICAL CARE
RESEARCH

86 STUDENTS participated in a research project or conducted other scholarly activity

37 EMPLOYEES participated in a research project or reported participating in other scholarly activity

29 STUDENTS were listed as authors on journal articles

27 PUBLICATIONS with faculty, staff and student authors*

*The list can be found on page 23.

40 NEW PROJECT REQUESTS were received in 2018-19, compared with 28 in 2017-18

87 STUDENT AUTHORS participated in posters/oral presentations

20 ANNUAL REPORT 2019 • NO. 1 IN RURAL PRIMARY CARE

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**RESEARCH GRANTS**

$5,000  
Pilot project using simulation with standardized patients to improve mastery of medical ethics content and student confidence.  
(7/1/17-12/31/18)  
AACOM  
PI – Gail Swarm

$31,500  
Role of serine/threonine kinase interacting protein during rotavirus replication.  
(8/1/17-7/31/18)  
MURC (WV INBRE/NIH)  
PI – Crystal Boudreaux

$22,000  
Hypomethylating agents in treating brain metastasis breast cancer.  
(10/1/17-9/30/18)  
WVCTSI Collaborative Grant  
PI – Tuoen Liu

$23,846  
Community childhood asthma detection and barrier identification.  
(10/1/17-9/30/18)  
WVCTSI Collaborative Grant  
PI – Maple Landvoigt

$19,250  
Neuronal fatty acid methylation by protein arginine methyltransferase.  
(1/1/18-6/30/19)  
LSU HSC (AHA)  
PI – Jacob Neumann

$50,000  
WV INBRE Equipment Award.  
(5/8/19-7/31/19)  
MURC (WV INBRE/NIH)  
PI – Jandy Hanna

$17,994  
A randomized controlled trial of a community-based chronic pain self-management program in West Virginia.  
(9/30/17-9/29/18)  
WVURC (CDC)  
PI – Sally Hurst

$332,141  
WV Clinical and Translational Science Institute grant.  
(7/1/18-6/30/19)  
WVURC (NIH)  
PI – Drema Mace

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**TOTAL AMOUNT UNDER MANAGEMENT**

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<th>2016-17</th>
<th>2017-18</th>
<th>2018-19</th>
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**RESEARCH GRANTS TOTALING**  
$679,298

**NON-RESEARCH GRANTS TOTALING**  
$2,481,591

---

2017-18  2018-19

$3M  $3M

$2.5M  $2.5M

$1.5M  $1.5M

$1M  $1M

TOTAL AMOUNT UNDER MANAGEMENT  
$2,481,591

---

2016-17  2017-18  2018-19

$1,930,947  $1,656,014  $3,160,889

---

$127,567  
Rural West Virginia responds to opioid injection epidemics: from data to action.  
(8/15/18-11/30/19)  
WVURC (NIDA/NIH/CDC/SAMHSA, ARC)  
PI – Drema Mace
## Non-Research Grants

<table>
<thead>
<tr>
<th>Amount</th>
<th>Description</th>
<th>Start Date</th>
<th>End Date</th>
<th>PD(s)</th>
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<td><strong>$20,000</strong></td>
<td>Perinatal Partnership.</td>
<td>1/1/18-6/30/19</td>
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<td>WV HEPC, PD – Kathleen Martin</td>
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<td><strong>$13,500</strong></td>
<td>Diversity for Equity.</td>
<td>7/1/18-6/30/19</td>
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<td><strong>$641,959</strong></td>
<td>Scholarships for Disadvantaged Students.</td>
<td>7/1/18-6/30/19</td>
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<td>HRSA, PD – Rebecca Morrow</td>
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<tr>
<td><strong>$15,000</strong></td>
<td>Substance abuse prevention and treatment.</td>
<td>10/1/18-9/30/19</td>
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<td>Community Connections Inc., PDs – Haylee Heinsberg and Drema Mace</td>
</tr>
<tr>
<td><strong>$9,000</strong></td>
<td>Grants to reduce sexual assault, domestic violence, dating violence and stalking on campus.</td>
<td>10/1/16-9/30/19</td>
<td></td>
<td>WV Foundation for Rape Information and Services (FRISOVW), PD – Rebecca Morrow</td>
</tr>
<tr>
<td><strong>$30,000</strong></td>
<td>Rural Health Residency.</td>
<td>9/4/18-7/31/20</td>
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<td>WV HEPC, PD – Robert Pepper</td>
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<tr>
<td><strong>$25,000</strong></td>
<td>Title IX Investigator Training.</td>
<td>8/1/18-12/30/18</td>
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<td>WV HEPC, PD – Leslie Bicksler</td>
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<td><strong>$587,000</strong></td>
<td>Rural Health Initiative Program.</td>
<td>7/1/18-6/30/20</td>
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<td>WV HEPC, PD – Craig Boisvert</td>
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<td><strong>$79,638</strong></td>
<td>Prescription Drug Overdose Toolkit.</td>
<td>9/1/18-8/31/19</td>
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<td>SAMHSA, WV BBHHF, PD – Drema Mace</td>
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<td><strong>$864,600</strong></td>
<td>State Opioid Response Program.</td>
<td>1/1/19-9/30/19</td>
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<td>SAMHSA, WV BBHHF, PD – Drema Mace</td>
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<tr>
<td><strong>$35,894</strong></td>
<td>Greenbrier County Health Alliance Contract for Program Management.</td>
<td>11/1/18-10/31/19</td>
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<td>SAMHSA, WV DHHR, PD – Sally Hurst</td>
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<td><strong>$5,000</strong></td>
<td>All of Us Community Engagement Through Public Libraries.</td>
<td>5/1/19-4/30/20</td>
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<td>NIH, PD – Heather Bladen</td>
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<td><strong>$30,000</strong></td>
<td>MSOPTI Rural Scholars Grant.</td>
<td>8/1/18-8/1/20</td>
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<td>WV HEPC, PDs – William Shires and Victoria Shuman</td>
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<td>Healthy Children’s Initiative.</td>
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<td>Highmark Blue Cross Blue Shield, PD – Marilea Butcher</td>
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<td>7/17/17-6/30/19</td>
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<td>Healthy Children’s Initiative.</td>
<td>7/17/17-6/30/19</td>
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<td>Hamilton Family Foundation</td>
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Rubin, AN*; Espiridion, ED; Lofgren, DH

Rubin, AN*; Espiridion, ED; Truong, N-H*; Lofgren, DH


Fabra, AC; Granatosky, M; Hanna, JB; Schmitt, D

Li, G; Liu, T; Shao, X; Liu, Z; Duan, J; Akilleh, R*; Cao, S; Jin, D

Parag, S*; Espiridion, ED

Granatonsky, MC; Bryce, CM; Hanna, JB; Fitzsimons, A; Laird, MF; Stilson, K; Wall, CE; Ross, CF

Espiridion, ED; Daniel, A*; Van Allen, JR*

Espiridion, ED; Lewandrowski, C*; Shahriari, S*; Bestoyong, DF*

Ross, BM*; Lee, JD*; Espiridion, ED

Opipari, MI; Perrotta, AL; Beatty, DR

Steger, CL; Boudreaux, CE; LaConet, LE; Pease, JB; McDonald, SM

Granatonsky, MC; Schmitt, D; Hanna, JB

Kurtom, M*; Henning, A*; Espiridion, ED


Surgical and Endovascular Comprehensive Treatment Outcomes of Unruptured Intracranial Aneurysms: Reduction of Treatment Bias. World Neurosurgery 126: e878-887. doi: 10.1016/j.wneu.2019.03.005. (June 2019) Ogilvy, CS; Jordan, NJ*; Ascanio, LC; Enriquez-Marulanda, AA; Salem, MM; Moore, JM; Thomas, AJ

ACTIVE PROJECTS

FACULTY AND STAFF

Department of Biomedical Sciences
Asano, S
Benmerzouga, I
Benson, M
Boudreaux, C
Bridges, K
Carrier, R
Eleazer, C
Griffith, B
Hanna, J
Krajacic, P
Liu, T
Morris-Wiman, J
Neumann, J
Scopa Kelso, R
Szálaí, G
Ward, P

Department of Clinical Sciences
Bernardino, L
Cochran, J
Frank, A
Hamric, H
Johnson, R
Kelso, A
Landvoigt, M
Linsenmeyer, M
Lot, L
Lovett, G
Martin, K
Nazar, A
Schaper, D
Shuman, V
Swarm, G
Webb, D

Statewide Campus
Hrutkay, L
Mann, J
Rubin, A
Wadding, J

Center for Rural and Community Health
Hereford, C
Mace, D
Hurst, S

Osteopathic Principles and Practice
Foster, R
Schmidt, D
McClung, C

Other departments
Conley, G
Wise, C

STUDENTS

Baker, A
Baker, J
Balakrishnan, M
Bergeson, K
Bestoyong, D
Blake, A
Calderwood, J
Camp, B
Collins, JM
Costello, M
Cox, A
Croce, P
DeBord, C
Eagar, H
Forren, N
Gateless, K
Gauthier, C
Gay, S
Geary, S
Gebo, A
Genovese, N
Gelrach, D
Gheissari, M
Gribble, M
Hart, A
Holodnik, O
Hurlbut, G
Hyden, K
Johnson, A
Katsiaryna, M
Kent, L
Khalil, J
King Delmar, K
Kohler, W
Lam, R
Lane, SA
Lee, T
Lewandrowski, C
Maguina, S
Malaty, S
Mannan, A
Marcinnekevicius, M
Martin, C
Marzouk, D
McCourt, L
McDade, K
McKenna, M
Moore, D
Powell, T
Ray, L
Ramkissoon, P
Rohrbaugh, C
Romaniello, C
Ross, B
Sharp, J
Siddiqui, S
Singh, R
Smith, D
Sweeney, B
Tilley, M
Van Allen, J
VanDusen, G
Varon, K
Ward, J
Wolf, B
Yasgur, B

Medmanage: The Development of a Tool to Assist Medication Reconciliation in a Rural Primary Care Clinic. Journal of the American Association of Nurse Practitioners. doi: 101097/JXX.0000000000000197. (Feb. 27, 2019) Jarrett, T; Cochran, J; Baus, A; Delmar, K*

MSOPTI RESEARCH DAY
POSTER PRESENTATION WINNERS

STUDENTS

CASE STUDY CATEGORY

1st: KAITLIN MCDADE, OMS IV • GORDON HOLEN, D.O.
“A Typical Presentation of Primary Osteosarcoma in an Adult Patient in the Absence of Risk Factors”

2nd: ROBERT D. MULLIN, OMS III • MADELINE G. PARSON, OMS III • JEREMY J. ADAMS, D.O. • MICHAEL J. TRANOVICH, D.O.
“Cotton Fever: A Sepsis Mimicker in Intravenous Drug Users”

3rd: MADELINE G. PARSON, OMS III • ADAM C. HEINEMANN, D.O. • ROBERT D. MULLIN, OMS III • MICHAEL J. TRANOVICH, D.O.
“Follow-Up of a Complicated Case of Cocaine-Associated Levamisole Vasculitis”

RESEARCH CATEGORY

1st: BRANDY SWEENEY, OMS III • RACHAL CRUM, D.O., OGME II • EMILY THOMAS, D.O., FAC
“Improving the Rate of Compliance With ACC/AHA/HFSA Guidelines Regarding Angiotensin Receptor-Nepri lysin Inhibitor (ANRI) Use in Patients With Heart Failure and Reduced EF (HFrEF)”

2nd: LAURA MCCOURT, OMS IV • KAITLIN MCDADE, OMS IV • DAVID MOORE, OMS IV • SCOTT KILLMER, M.D.
“Evaluation of Laparoscopic Ventral Hernia Complications in Patients With Elevated Body Mass Index”

3rd: GABOR SZALAI, PH.D. • DEBORAH SCHMIDT, D.O. • DAVID WEBB, M.D. • KEVIN HENNENHOEFER, D.O. • MONIKA MARCINKEVICIUS, OMS III • CRISSANDRA DIGGES, OMS III
“Effect of Lymphatic Pump Technique on the Pathogenesis and Management of Experimentally-Induced Psoriasis in Rodents”

PEOPLE’S CHOICE: DAHNISH S. VALIANI, OMS III • AMEER QUADRI, OMS III
“Neuroblastoma: Advances in Understanding and Therapies”

RESIDENTS

CASE STUDY CATEGORY

1st: RYAN NEWELL, D.O. • ADRIENNE FRATCZAK, D.O., PGY I • MATTHEW FRATCZAK, D.O., PGY I
“A Plant-Based Medical Approach to Chronic Disease”

2nd: JEFFREY LIN, D.O. • SIMONA IOJA, M.D.
“Primary Adrenal Insufficiency as a Presentation of Stage IV Non-Hodgkin Lymphoma”

3rd: KACEY RADICIC, D.O. • JOE CISZEWSKI, D.O. • DANIEL SUDERS, D.O.
“Facial and Intestinal Angioedema With Ace Inhibitor”

PEOPLE’S CHOICE: CHELSEA FEGER, D.O., OGME II • RACHAL CRUM, D.O., OGME II • SETH LARSON, D.O., OGME III
“Thriveasaurus: A Program on Life Coping Skills”

RESEARCH CATEGORY

1st: RACHAL CRUM, D.O., OGME II • BRANDY SWEENEY, OMS III • EMILY THOMAS, D.O.
“Improving the Rate of Compliance With ACCF/AHA Guidelines”

2nd: KRISTIN BLACK, D.O., PGY III • S. WHITNEY COURTNEY, D.O. • ERIC RADCLIFFE, M.D. • LAUREN CRONISE, OMS III
“Improving Osteopathic Manipulative Treatment Curriculum Through Procedure Based Learning Within a Family Medicine Continuity Clinic: a Quality Improvement Project”

3rd: JEFFREY LIN, D.O. • KASEY RADICIC, D.O. • LYNDIE WILKINS, OMS III • DEBORAH SCHMIDT, D.O. • DAVID WEBB, M.D. • KEVIN HENNENHOEFER, D.O. • MONIKA MARCINKEVICIUS, OMS III • CRISSANDRA DIGGES, OMS III
“Effect of Lymphatic Pump Technique on the Pathogenesis and Management of Experimentally-Induced Psoriasis in Rodents”

PEOPLE’S CHOICE: CODY K. GRACE, D.O., OGME I • ZACHARY K. HAMILTON, D.O., OGME III
“What? Shocked?”
RURAL HEALTH INITIATIVE (RHI)

WVSOM’s RHI is answering the call for leaders in rural medicine.

2018-2019 FUNDING

The West Virginia Higher Education Policy Commission awarded WVSOM RHI a grant for $587,000.

RHI MISSION

The Rural Health Initiative’s mission is to enhance the rural primary care curriculum at the West Virginia School of Osteopathic Medicine in order to produce graduates uniquely qualified to practice medicine in rural/underserved communities of West Virginia.

A two-week Wilderness Medicine rotation took place July 30-Aug. 11, 2018, and included two full weeks of didactics and outdoor workshops including swift water rescue and rope rescue training. Participants also were involved with the state EMS “Battle of the Gorge” competition. WVSOM RHI co-sponsors this rotation for fourth-year medical students and residents.

As a portion of the RHI program, third- and fourth-year RHI students participate in industry activities or field experiences related to West Virginia’s workforce. Examples include medical simulations in coal mines and meeting with West Virginia legislators during Rural Workforce Day.
2,546 TOTAL W.VA. ROTATIONS WERE COMPLETED BY WVSOM STUDENTS

10 PRE-MED/UNDERGRADUATE STUDENTS participated in WVSOM’s RHI Green Coat Program, a pipeline program to support West Virginia students who hope to attend WVSOM.

1,210 RURAL/UNDERSERVED W.VA. ROTATIONS WERE COMPLETED BY WVSOM STUDENTS

428 HIGH SCHOOL STUDENTS were introduced to rural medicine opportunities through RHI pipeline activities. This number includes 302 high school students who participated in a program called CPR in Schools, where WVSOM students and staff taught high school students the steps necessary for CPR and encouraged a career in health care.

48 WVSOM STUDENTS PARTICIPATED IN THE RHI PROGRAM
- 11 from the Class of 2019
- 12 from the Class of 2020
- 12 from the Class of 2021
- 13 from the Class of 2022

4 STUDENTS from Davis and Elkins College

1 STUDENT from WVU Institute of Technology
- Charleston Area Medical Center, Charleston, W.Va.

6 RHI GRADUATES FROM THE CLASS OF 2019 WERE ACCEPTED BY:
• Charleston Area Medical Center
  - Charleston, W.Va. (1)
• Greenbrier Valley Medical Center
  - Ronceverte, W.Va. (3)
• WVU School of Medicine (1)
  - Morgantown, W.Va.
• Mountain State OPTI
  - Wheeling, W.Va. (1)

15 RURAL PHYSICIAN MENTORS encouraged RHI students to participate in rotations that enhanced rural primary care, reinforced student interest in rural primary care practice and demonstrated the quality of life in rural communities.

RHI is a program of the West Virginia School of Osteopathic Medicine. This program is presented with financial assistance as a grant from the West Virginia Higher Education Policy Commission.
During the 2018-19 admissions cycle, WVSOM recruiters traveled 40,467 miles to various recruitment events. They met 2,994 applicants during their travels.

More prospective students attended on-campus events during the 2018-19 cycle. There were 909 prospective students who attended on-campus events, including 116 applicants at open house events, 77 individual campus tours and other small group events. Additionally, WVSOM’s admissions office hosted the annual Health Professions Advisors Conference. Twenty-four advisors from 16 different institutions in West Virginia, Virginia, Tennessee, Pennsylvania and Maryland attended the day-and-a-half conference.
INTERVIEW CYCLE

During the interview cycle, 549 applicants were interviewed. The office saw a 15.2 percent increase (2,907 total) in supplemental applications from the 2017-18 cycle to the 2018-19 cycle. In July 2019, WVSOM enrolled 200 new students. The average MCAT score for accepted students was 501. The average science GPA of accepted and matriculated applicants increased to 3.54.

COMMUNICATING WITH PROSPECTIVE STUDENTS

The admissions office increased its communication with prospective students from the time they are accepted to the time they matriculate. Additionally, an e-newsletter was distributed as a way to stay in touch with college advisors throughout the admissions cycle. The office hosted Facebook Live sessions to better engage prospective students and provide them an opportunity to ask questions of admissions counselors and current students. The admissions team hosted two Facebook Live sessions with 1,488 participants.
WVSOM students hail from across the United States. The number of applications is strong each year. This past year, 5,298 students applied for about 200 available seats. WVSOM makes mission-driven decisions based on each applicant’s academic success, extracurricular experiences and passion to become an osteopathic physician.

215 total students in the first-year class

91 FEMALES 42% Compared to 117 (54%) in 2017

124 MALES 58% Compared to 98 (46%) in 2017
22% 47 MINORITY STUDENTS
First-year students

40% 86 25 YEARS OR OLDER
First-year students

841 TOTAL
First-year through fourth-year students; map created Aug. 29, 2019

HOME COUNTY OF 2018-19
IN-STATE WVSOM STUDENTS

192 TOTAL
First-year through fourth-year students; map created Aug. 29, 2019
OUR GRADUATE DEMOGRAPHICS

ALL SPECIALTIES

These maps show the total distribution of WVSOM graduates for all specialties throughout West Virginia and the United States by county and state, respectively.

GRADUATES FROM 1978-2016 PRACTICING IN WEST VIRGINIA

27% OF WVSOM GRADUATES ARE PHYSICIANS IN WEST VIRGINIA

3,035 TOTAL GRADUATES
Map created Aug. 29, 2019

GRADUATES FROM 1978-2016 PRACTICING IN THE U.S.

834 TOTAL GRADUATES
Map created Aug. 29, 2019
PRIMARY CARE

The maps on this page illustrate WVSOM primary care physicians located in all 50 states nationwide. In West Virginia, 49 counties have WVSOM graduates practicing primary care medicine.

GRADUATES FROM 1978-2016 PROVIDING PRIMARY CARE IN WEST VIRGINIA

GRADUATES FROM 1978-2016 PROVIDING PRIMARY CARE IN THE U.S.

651 TOTAL GRADUATES
Map created Aug. 29, 2019

2,074 TOTAL GRADUATES
Map created Aug. 29, 2019

89% OF THE COUNTIES IN WEST VIRGINIA HAVE WVSOM GRADUATES PROVIDING PRIMARY CARE
The maps on this page show that WVSOM graduates practice medicine in rural areas all over the country but especially in Appalachia.

478
TOTAL GRADUATES
Map created Aug. 29, 2019

Darker gold indicates counties added since last year’s report

85%
OF THE COUNTIES IN WEST VIRGINIA HAVE PHYSICIANS FROM WVSOM PRACTICING RURAL MEDICINE

1,052
TOTAL GRADUATES
Map created Aug. 29, 2019

Darker gold indicates states added since last year’s report
Mountain State Osteopathic Postdoctoral Training Institutions Inc. (MSOPTI) is an accredited graduate medical education training consortium consisting of WVSOM and affiliated training institutions.

**SPECIALTIES**

There are currently 126 residents in MSOPTI programs. These include WVSOM graduates as well as graduates from other osteopathic medical schools across the nation. There are 85 (65%) physicians currently in MSOPTI primary care residencies (family medicine, internal medicine, pediatrics and transitional/traditional rotating osteopathic internships).

**MSOPTI 2018-19**

<table>
<thead>
<tr>
<th>Specialty</th>
<th>Residents</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Medicine</td>
<td>56</td>
<td>(45%)</td>
</tr>
<tr>
<td>Emergency Medicine</td>
<td>35</td>
<td>(28%)</td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>24</td>
<td>(19%)</td>
</tr>
<tr>
<td>Neuromusculoskeletal Medicine + 1</td>
<td>6</td>
<td>(5%)</td>
</tr>
<tr>
<td>Traditional Rotating Osteopathic Internship</td>
<td>4</td>
<td>(3%)</td>
</tr>
<tr>
<td>Internal Medicine and Emergency Medicine</td>
<td>1</td>
<td>(0.1%)</td>
</tr>
</tbody>
</table>

The Accreditation Council for Graduate Medical Education (ACGME) and American Osteopathic Association (AOA) have been working together to ensure a smooth transition to the single accreditation system (SAS). AOA-approved programs and sponsoring institutions must achieve ACGME Initial Accreditation by June 30, 2020. AOA will cease to accredit graduate medical education programs after this date.

MSOPTI, as an ACGME sponsoring institution, has submitted applications for all its partner programs. At this time, all MSOPTI programs have achieved ACGME Continued Pre-Accreditation or Initial Accreditation. All programs under MSOPTI ACGME sponsorship will be seeking Osteopathic Recognition (OR).
FINANCIAL OVERVIEW

The following is a summary of WVSOM’s financial strength as of June 30, 2019.

- **STUDENT TUITION AND FEES**: 71%
- **STATE APPROPRIATIONS**: 14.2%
- **OTHER**: 14.8%
- **SOURCES OF REVENUE**:
  - 7.92% Investment income
  - 1.10% Auxiliary revenue
  - 4.80% Contracts and grants
  - 0.98% Misc.

**ADDITIONAL DONATIONS**: $288,733

- **SCHOLARSHIPS**: $114,129
- **CAPITAL CAMPAIGN**: $16,443
- **SOUTHEASTERN AREA HEALTH EDUCATION CENTER**: $111,438
- **ANNUAL FUND**: $46,723

**OPERATING EXPENSES**

Total operating expenses for fiscal year 2019 were $46,511,942.

- **60.5%**: Salaries, wages and benefits
  - Classified staff continued to be fully funded on the Mercer Schedule.
- **27.7%**: Supplies and other services
- **11.8%**: Other
  - Depreciation
  - Utilities
  - Loan cancellations and write-offs
  - Fees assessed by commission for operations
- **14.8%**: Other sources of revenue
  - State appropriations
  - Scholarships
  - Capital campaign
  - Southeastern Area Health Education Center
  - Annual fund
## Statement of Revenues, Expenses and Changes in Net Assets

Year ending June 30, 2019  •  (in thousands of dollars)

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2018</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating revenues</td>
<td>40,369</td>
<td>39,363</td>
<td>37,616</td>
</tr>
<tr>
<td>Operating expenses</td>
<td>46,511</td>
<td>44,088</td>
<td>43,016</td>
</tr>
<tr>
<td>Operating income</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-operating revenues - net</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Increase in net assets</td>
<td>5,744</td>
<td>5,171</td>
<td>4,969</td>
</tr>
<tr>
<td>Net assets (beginning of year)</td>
<td>127,585</td>
<td>132,556</td>
<td>127,585</td>
</tr>
<tr>
<td>Net assets, end of year</td>
<td>143,810</td>
<td>138,066</td>
<td>132,554</td>
</tr>
</tbody>
</table>

## Growth of Net Assets During the Past Three Years

Year ending June 30, 2019  •  (in thousands of dollars)

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2018</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASSETS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current assets</td>
<td>75,562</td>
<td>69,335</td>
<td>61,001</td>
</tr>
<tr>
<td>Non-current assets</td>
<td>5,885</td>
<td>5,205</td>
<td>5,903</td>
</tr>
<tr>
<td>Capital assets</td>
<td>75,893</td>
<td>76,187</td>
<td>78,794</td>
</tr>
<tr>
<td>TOTAL ASSETS</td>
<td>157,340</td>
<td>150,727</td>
<td>145,698</td>
</tr>
<tr>
<td>LIABILITIES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current liabilities</td>
<td>4,424</td>
<td>4,410</td>
<td>3,879</td>
</tr>
<tr>
<td>Non-current liabilities</td>
<td>9,106</td>
<td>8,252</td>
<td>9,264</td>
</tr>
<tr>
<td>TOTAL LIABILITIES</td>
<td>13,530</td>
<td>12,662</td>
<td>13,143</td>
</tr>
<tr>
<td>NET ASSETS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Invested in capital assets</td>
<td>75,893</td>
<td>76,187</td>
<td>78,794</td>
</tr>
<tr>
<td>Restricted - expendable</td>
<td>11,232</td>
<td>11,158</td>
<td>10,679</td>
</tr>
<tr>
<td>Unrestricted</td>
<td>56,685</td>
<td>50,720</td>
<td>43,082</td>
</tr>
<tr>
<td>TOTAL NET ASSETS</td>
<td>143,810</td>
<td>138,065</td>
<td>132,555</td>
</tr>
</tbody>
</table>

As the data shows, WVSOM’s financial position improved during this period. Total assets grew from $151M to $157M during the previous year, while total liabilities increased by approximately $868K, resulting in a $5.7M increase in net assets.

### Ratio of Current Assets

- 2019: 17.08:1
- 2018: 15.72:1

The 2019 ratio increased.
DEDICATION TO COMMUNITY SERVICE

WVSOM believes that a commitment to helping others is integral to the education of future osteopathic physicians. The school works hard to foster in its students an eagerness to give back to people in the local area as well as communities in need around the world.

It does so through a variety of programs, from smaller, year-round fundraising events and donation drives to participation in national initiatives. Two examples of community service efforts at WVSOM are the Translating Osteopathic Understanding into Community Health (T.O.U.C.H.) program and the annual Heart of the Holidays event.
T.O.U.C.H. PROGRAM

The T.O.U.C.H. program is a national initiative by the Council of Osteopathic Student Government Presidents (COSGP) and has been a part of WVSOM student life since 2007. The program encourages medical students to volunteer for community service work throughout the year, rewarding those who log more than 50 hours in a 12-month period with the designation of “silver” status and those accruing more than 100 hours with “gold” status. The student with the highest number of service hours each year is awarded “platinum” status.

During the 2018-19 academic year, WVSOM clubs and organizations collectively raised more than $49,889. More than $30,000 went to charities, nonprofit organizations and to fund service trips.
VISION OF WELLNESS
ONGOING, ADAPTIVE PURSUIT OF OPTIMAL EMOTIONAL, PHYSICAL AND SPIRITUAL BALANCE

THE WVSOM WELLNESS COMMITTEE IS COMMITTED TO:

Fostering health and wellness in the work and educational environment

Ensuring accreditation standards and procedures related to health and wellness

WELLNESS COMMITTEE

The WVSOM Health and Wellness Committee was established two years ago to improve the mental and physical health of its employees and students. During its second year, the committee focused on increasing its visibility and expanding its impact. The committee established a webpage to provide wellness resources on an ongoing and asynchronous basis.

The committee sought to increase the engagement of all members of the WVSOM community through the activity of walking. The committee received a $750 grant from the WVSOM Alumni Association to establish signage and develop maps of walking tracks of a quarter mile, a half mile and a mile on campus, and contracted with an outside company, Walker Tracker, which allows for team-based walking competitions along virtually mapped themed courses. The committee will continue to encourage participation in the activity during the next academic year.

The committee also continued to encourage wellness activities in other WVSOM departments. For example, in 2018-19, the Academic Support and Intervention Resources (ASPIRE) department instituted wellness lunch groups during which students could have lunch with ASPIRE counselors and discuss wellness topics. ASPIRE also offered open art studios for students as well as drumming circles featuring instruction from students at the Greenbrier Academy for Girls, a Pence Springs, W.Va.-based therapeutic boarding school.

DIVERSITY COMMITTEE

The Diversity Committee received a $7,500 grant from the Higher Education Policy Commission for the fiscal year. The committee hosted an educational series called “Difficult Conversations: Considering Identities in Health Care,” a five-part series developed by a student subcommittee in conjunction with a WVSOM faculty member. It focused on how patient identity categories such as rurality, race, ethnicity and socioeconomic status factor into ethical decisions in health care. Students learned the importance of considering diversity in health care settings, including how identities can affect patients’ understanding of and ability to comply with medical treatment; learned how rurality, socioeconomic status, race and ethnicity intersect with the health care system; explored their own identity categories as they relate to the health care system; and practiced communicating with standardized patients whose cultural backgrounds and identity categories differed from their own.

A chapter of the Student National Medical Association (SNMA) was established this past year to further support diverse students at WVSOM. The group received a small grant to purchase children’s books to read at a local library, and hosted a “hunger banquet” at which participants dined on meals reflecting a range of socioeconomic status. SNMA meetings provided informal networking opportunities for underrepresented students. The committee also hosted a trainer who focused on unconscious bias for sessions with students, staff and faculty.

Efforts for the 2019-20 year will include training members of the WVSOM community as moderators for issue-based discussions and offering a series on medical Spanish to help medical professionals better communicate with Spanish-speaking patients.

The WVSOM Health and Wellness Committee’s walking program encouraged teams of participants to complete a “virtual tour” of the Appalachian Trail.
The WVSOM Center for Rural and Community Health supports the osteopathic medical education focus on team-based and patient-centered care and the integration of prevention and population health to improve the quality and efficiency of health care delivery. This is accomplished by developing programs that contribute to improving health in rural communities, supporting clinical research in rural practices, developing resources that support these efforts, providing education to communities, rural providers and students, and developing collaborations that support these efforts.

**MISSION**

The WVSOM Center for Rural and Community Health develops programs that contribute to improving health in rural communities, supporting clinical research in rural practices, developing resources that support these efforts, providing education to communities, rural providers and students, and developing collaborations that support these efforts.

**VISION**

- Develop and implement statewide programs, resources and collaborations to improve health.
- Support clinical and community research.
- Advance a statewide evidence-based health infrastructure.
- Provide education to communities, providers, faculty, staff and students.

**MAJOR PROJECTS**

**CRCH PROJECTS AND PROGRAMS**

- Engaged clinicians, medical students and community partners in 12 research and scholarly activity projects across West Virginia, with partners including West Virginia Clinical and Translational Science Institute, West Virginia Higher Education Policy Commission, West Virginia University, Marshall Health, Minnie Hamilton Health, Westbrook Health and West Virginia Family Health.
- Representatives from the West Virginia Bureau for Behavioral Health and Health Facilities and the three state medical schools collaborated using federal funds to offer professional development and training around opioid use disorder/substance use disorder.
- The WVSOM Opioid Series was offered to first- and second-year medical students and faculty to increase knowledge and awareness of opioid use disorder, medication-assisted treatment and non-pharmacological treatment of pain to improve patient outcomes. Overall, 190 medical students and staff attended the training, with 128 medical students and staff attending all five sessions.
- Chronic pain self-management courses were led in Greenbrier and Wood counties. State Opioid Response funds have been used to fund three six-week courses, with each course serving approximately 10-12 participants.
- Ten osteopathic continuing medical education opportunities for physicians statewide were attended by 495 physicians/mid-level providers on topics related to substance use disorder.
► A Charleston Area Medical Center speaker series on “A Multidisciplinary Approach to Substance Use Disorder” was attended by 20 physicians and 23 nurses.

► The first of seven regional American Society of Addiction Medicine Medication Assisted Treatment waiver training sessions was completed at WV SOM, with 38 providers trained.

► Created and developed the first online training platform, “Community Health Education Resource Person (CHERP) Level 1 – Wellness.” The CHERP training is the foundation of the community health worker program.

► Printed and disseminated opioid prevention and awareness toolkits in Wyoming and Fayette counties in partnership with the West Virginia Bureau for Behavioral Health and Health Facilities.

► Completed a second-year Substance Abuse Prevention and Treatment grant for Community Connections Inc.

► Awarded the Express Library Project “Health Happens in Libraries” from the National Network of Libraries of Medicine.

► Participated in “Thriveasaurus: A Program on Life Coping Skills” attended by 300 students in five elementary schools.

► Approximately 817 youths participated in Youth Education Days in schools.

► Approximately 300 youths participated in CPR in schools.

► CRCH and RHI partnered with the Flying Falcons 4-H Club to offer health education.

► Attended multiple health and youth fairs to promote health, wellness and physical activity.

► AmeriCorps projects with community focus included health, wellness and opioid use disorders.

► A total of $515,000 in grant funds were received by GCHA. Funders include:
  - Benedum Foundation
  - Hollowell Foundation
  - Disability Opportunity Fund
  - GROW Inc.
  - USDA Rural Business Development
  - State Opioid Response
  - WV Healthy Kids and Families Coalition
  - Substance Abuse Prevention and Treatment
  - Peyton Foundation
  - Seneca Trail Foundation

► Funds awarded to GCHA were invested into the community for the following:
  - Mini-grants to 10 ambassador communities.
  - Acquired property for development of Marvel Early Childhood Center.
  - Partnered with Center for Rural and Community Health to engage three WVSOM second-year work-study students to build capacity for student community engagement and research.
  - Offered weekly Waste Not/Want Not gleaning project to link local food to local need and increase use of senior vouchers and Supplemental Nutrition Assistance Program.
  - Created demonstration garden and offered free weekly gardening lessons to the public.
  - Trained leaders and offered community workshops in diabetes and chronic pain self-management program.
  - Collaborated with WV Health Connection to develop a statewide system to schedule and track community workshop participation and referrals.
For academic medicine to play a vital role in reducing rural health disparities, genuine grassroots engagement and research are essential to find sustainable solutions to detrimental behaviors, inequalities and biases that negatively impact health outcomes.

In 2015, WVSOM’s Center for Rural and Community Health formed the Greenbrier County Health Alliance (GCHA), a nonprofit organization to engage communities experiencing social isolation. Partnerships formed, engagement strategies were implemented and healthy initiatives thrived. GCHA cultivated trust and county-wide relationships by empowering leadership, sharing resources and providing ongoing support.

In 2019, WVSOM and GCHA initiated development of a community hub for engagement programming and research two blocks from campus.

Collaborating with an expanding partner group, WVSOM invested in the creation of the Clingman Center for Community Engagement and is establishing a complex service system to meet local priorities.

The Clingman Center is named in honor of Gwen Clingman and her devotion to and nourishment of WVSOM students and the community. The Clingman Center serves as a home base where communities, students and faculty come together to learn and advance holistic health and the quality of life in rural West Virginia.

Community engagement is an ever-evolving collaboration of art and science. WVSOM is working with communities in development and collaboration to provide new research opportunities. As diverse partners engage in shared health priorities, strong bonds are being formed to connect isolated communities, define innovative programs and provide robust data to inform and improve health outcomes.
HEALTHY CHILDREN’S INITIATIVE

The Healthy Children’s Initiative was developed eight years ago to help children learn to make healthy choices and encourage active lifestyles to prevent diseases such as obesity, heart disease and diabetes from occurring as they reach adulthood. The initiative includes the Emmy award-winning television series Abracadabra, live events for community and school programs, classroom visits and resource materials.

1. SHOW

Season 6 of the Emmy award-winning show was completed and released. Special distribution and emphasis focused on the episode “Know to Say NO!” This episode teaches viewers about drug awareness and risks involved with using or abusing drugs.

Concord University partnered with WVSOM once again for the production of Season 7. Episode topics included awareness of Internet influencers, lying, winning, having a party with healthy snacks, STEM, mystery, and reading and imagination. A behind-the-scenes documentary is also in production.

The seventh season of Abracadabra was filmed in summer 2019. In a science fiction-themed episode titled “To the Moon or Bust,” Joey and the rest of the cast raced to the moon.

SPONSORED BY:

[Image of sponsors logos]
2. OUTREACH: ABRA LIVE!

Abra Live! is presented by cast members to elementary schools and community groups. They entertain and reinforce key educational messages through magic, ventriloquism, games, music and science experiments.

Throughout 2018-19, 1,005+ STUDENTS experienced Abra Live!

3. OUTREACH: ABRA CLASSROOM

The Abra Classroom program is designed for individual classes to bring healthy choices to life in a small group setting and introduce science in a fun and interactive way. Pre- and post-tests are administered to determine the retention rate, which averaged 90 percent.

**ABRA CLASSROOM: UNDERSTANDING AND RETENTION RESULTS**

An evaluation tool was developed for use in the classroom to determine overall knowledge improvement for children who watch the show.

The Abra Classroom program was presented at 2 ELEMENTARY SCHOOLS

Overbrook Elementary
Smoot Elementary

280+ STUDENTS participated in the Abra Classroom

90% RETENTION RATE of materials covered in Abra Classroom

4. RESOURCES

**WEBSITE/SOCIAL MEDIA**

The show’s website, www.abracadabra.org, offers children ages 4-10 games and activities focusing on health and nutrition. Parents and teachers can also find content to assist with educational messages.

**PUBLICATIONS**

A collection of Abradacabra healthy snack recipes was published in the form of a cookbook. This publication was designed with vivid colors and fun images to encourage healthy eating.
$20K AWARDED IN STUDENT SCHOLARSHIPS

The WVSOM Alumni Association awarded $20,000 in student scholarships during the 2018-19 fiscal year.

The WVSOM Alumni Association sponsored a number of successful “Alumni After Hours” events with alumni and students around West Virginia and during the 2018 OMED conference in San Diego and the 2019 ACOFP convention in Chicago. Statewide events in the first half of 2019 included Martinsburg in February and Morgantown in May.

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WVSOM ALUMNI ASSOCIATION

321 ALUMNI
PARTICIPATED IN THE
STUDENT MENTOR PROGRAM

3,842 TOTAL ALUMNI

SPOTLIGHT ACTIVITIES

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(as of June 30, 2019)

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$148,658 TOWER DONATIONS TO DATE

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2019 award winner
Robert Holstein, D.O.

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DISTINGUISHED ALUMNI OF THE YEAR

2018 award winner
Christopher “Dino” Beckett, D.O.

2019 award winner
Robert Holstein, D.O.

STUDENT SUPPORT

The WVSOM Alumni Association provided support for the following events:

- Sponsored a Wilderness Medicine rotation dinner in August 2018.
- Participated in Hospital Day in November 2018.
- Sponsored a Student Osteopathic Medical Association (SOMA) dinner in February 2019.
- Sponsored an Almost Alumni luncheon in May 2019.
- Sponsored a graduation brunch for graduates’ spouses and families in May 2019.
- Provided dinners for the Professionalism and Leadership in the Medical Setting student group throughout the year.

TAKE A SEAT DONORS

- James Nemitz, Ph.D.
- Lorenzo Pence, D.O.
- Emily Redding, D.O.
- Naomi Wriston, D.O.

GRANT PROPOSALS

The following grant proposals were approved and funded:

- **$3,500** was awarded to SOMA to help with transportation costs for students to attend the AOA’s annual D.O. Day on the Hill.

- **$750** was awarded to Health Yeah, a student-run community outreach program focused on nutrition and cooking for disease prevention, for the purchase of fresh food and kitchen supplies.

- **$750** was awarded to the WVSOM Health and Wellness Committee, made up of students, faculty and staff. The group is developing signage and mapping for a new campus walking project.

- **$700** was awarded for the SOMA dinner that took place on Feb. 8, 2019.

SPONSORSHIPS

2018 James W. Nemitz, Ph.D., presidential installation

2018 Grand Affair fundraiser for student scholarships

The WVSOM Alumni Association sponsored snacks for 2019 Mid-Winter Osteopathic Seminar participants to package for donation to the Charleston Area Medical Center Foundation Hospitality House and YWCA Sojourner’s Shelter.
This year the WVSOM Foundation’s growth initiatives continued developing new ways to reach and engage loyal and new donors.

**YEAR-END APPEAL CAMPAIGN**

The foundation and its partners again created a video series featuring WVSOM President James W. Nemitz, Ph.D., and two WVSOM graduates for a year-end appeal. This year’s video appeal also was launched on social media platforms and emailed to the foundation’s donor list. More than $47,250 was raised during the 2018 year-end appeal.

**LEVERAGING SOCIAL MEDIA**

This year the WVSOM Foundation added three social media outlets to its marketing toolkit and participated for the first time in the social-media-driven Giving Tuesday global event. More than $4,700 was raised through the campaign. These funds were used to kick off the Legacy Scholarship Endowment.

Collaborating with marketing partners and the school’s media services team, foundation staff developed several videos promoting the organization’s purpose, projects, fundraising efforts and impact for the website and social media.

**DOCARE CROWDFUNDING**

Planning for the installation of a crowdfunding tool on the new website, the foundation experimented with a social media campaign to fund WVSOM’s DOCARE chapter’s service trip to Sacred Valley, Peru. More than $2,200 was raised through social media engagement.

**NEW! WAYS TO GIVE LAUNCHED**

Two new giving opportunities, the Legacy Scholarship Endowment and Planned Giving, were formalized in the past year and promoted through the website, collateral pieces and events.
NEW! WVSOMFOUNDATION.ORG

While an updated look and richer content will be key features of the new WVSOM Foundation website, its most important attribute will be the link it will host to a new crowdfunding online donation tool. Capable of hosting donation links for several campaigns at once, this tool is graphics-friendly with back-end technologies to make giving seamless and easy for our donors.

SECURING NEW DONORS

In the past year the WVSOM Foundation has secured thirty new donors, two new Annual Fund partners and three new scholarships.

ANNUAL FUND PARTNERS

HAVEN, LTD  MANCHIN CLINIC  DAVIS EYE CENTER  TOTAL-LIFE CARE  LITTLE GENERAL

BB&T  Morgan Stanley

NEW! PARTNERS

UNITED BANK  WEST VIRGINIA’S BANK  Mako

CHANGES IN TOTAL ASSETS UNDER MANAGEMENT

<table>
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<th>JULY 1, 2018</th>
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GROWING OUR ASSETS

6%* AVERAGE ANNUAL RETURN ON INVESTMENTS + $2,802,393* INCREASE IN TOTAL FUNDS UNDER MANAGEMENT

ANATOMY OF DONATIONS

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*Includes custodial funds invested on behalf of WVSOM

EXPANDING SCHOLARSHIPS

This year the David Hinchman, D.O., Emergency Medicine Scholarship was established and awarded.

MAXIMIZING FUNDING THROUGH GRANTS

Neighborhood Investment Program Grant
Raised $15,000 by leveraging $2,500 in West Virginia NIP tax credits.

River Valley Health Foundation Grant
Supported student housing in the northern region of West Virginia.

Assisted the Center for Rural and Community Health with grant administration

HEATHER ANTOLINI
Executive Director, WVSOM Foundation

NEW CREDENTIALS:
Certified Fundraising Manager (CFRM)
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Certified Nonprofit Executive Leader (CNEL)

WVSOM FOUNDATION
STUDENT CENTER AND CLINICAL EVALUATION CENTER (CEC)

STUDENT CENTER
Large Conference Hall with stage ($500,000)
Dining Lounge ($125,000)
Quiet Student Study Lounge ($100,000)
Open Student Study Lounge ($100,000)
Campus Store ($100,000)
Amphitheater ($100,000)
Student Promenade ($50,000)
Four Student Government/Student Life Offices ($20,000 each)

ADDITIONAL NAMING OPPORTUNITIES
Center for Technology and Rural Medicine First-Year Lecture Hall ($250,000)
Center for Technology and Rural Medicine Second-Year Lecture Hall ($250,000)

CEC
11 Human-Patient Simulator Labs ($35,000 each)
21 Standardized Patient Labs ($25,000 each)

TO DISCUSS A GIFT OPPORTUNITY, CONTACT:
James Nemitz 304.647.6368 jnemitz@osteo.wvsom.edu
Marilea Butcher 304.647.6367 mbutcher@osteo.wvsom.edu
Shannon Warren 304.647.6382 swarren@osteo.wvsom.edu
Heather Antolini 304.647.6374 hantolini@osteo.wvsom.edu

STUDENT CENTER TOTAL GOAL: $1,745,000
RECEIVED $673,590 OUTSTANDING $10,910 COMMITMENTS NEEDED $1,155,000

CEC FUNDRAISING TOTAL GOAL: $1,594,500
RECEIVED $555,167 OUTSTANDING $34,833 COMMITMENTS NEEDED $910,000
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