

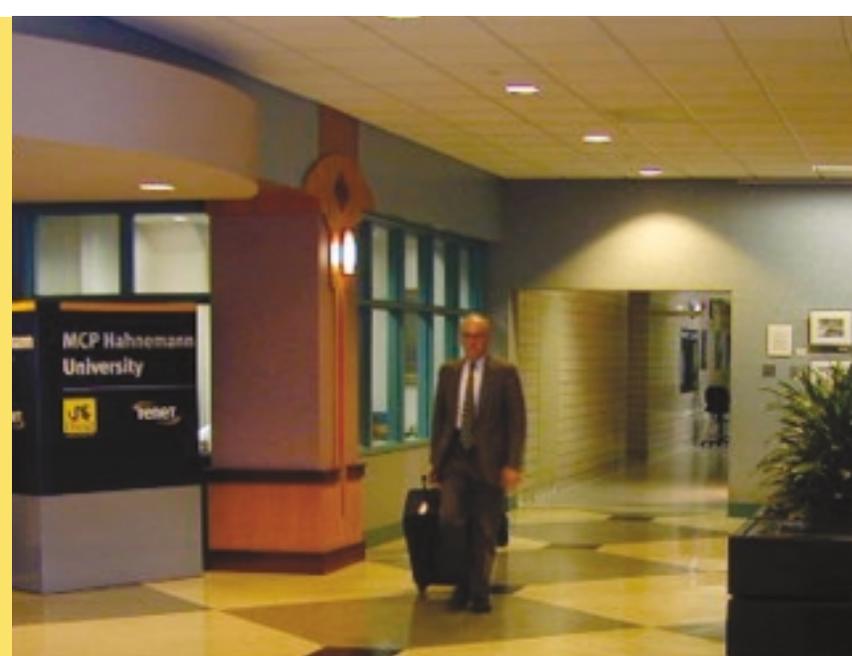


DREXEL UNIVERSITY COLLEGE OF MEDICINE

Mail Stop 484
245 N.15th Street
Philadelphia, PA 19102



The Drexel University College of Medicine is a not-for-profit subsidiary of Drexel University and is affiliated with Tenet HealthSystem.





THE **OLDEST**
2002

NEW MEDICAL COLLEGE IN AMERICA

Inaugural Report



**Drexel University
College of Medicine**

In the tradition of Woman's Medical College of
Pennsylvania and Hahnemann Medical College

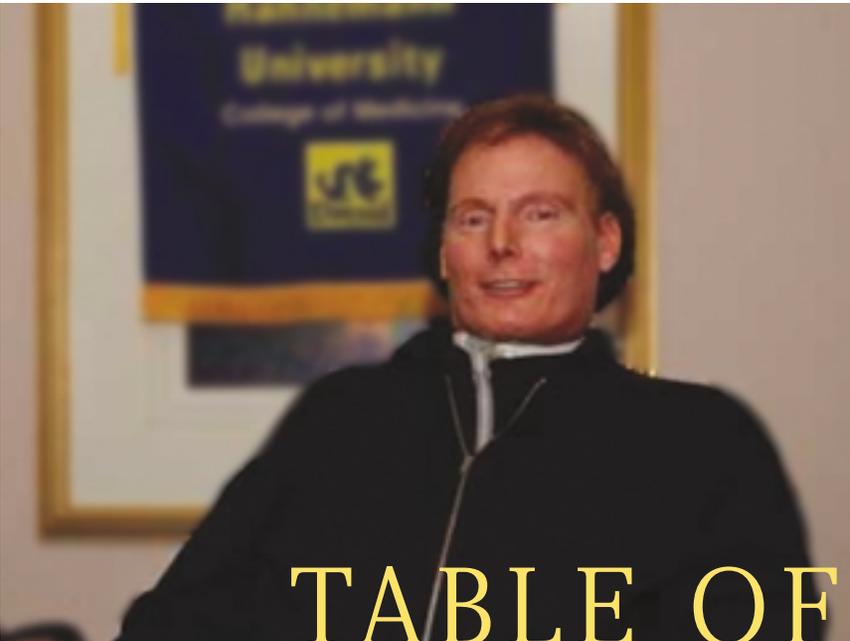


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Drexel University College of Medicine has one of the largest spinal cord injury research centers in the mid atlantic region and is supported by the Christopher Reeve Paralysis Foundation. Christopher Reeve was the Guest of Honor at the College's first Black Tie White Coat Ball. The event hosted 850 patrons and raised \$400,000 for spinal cord injury research.



Drexel University College of Medicine

In the tradition of Woman's Medical College of
Pennsylvania and Hahnemann Medical College

OUR EVOLUTION: 1848-2002

1848

Homeopathic College of Pennsylvania begins educating students in the emerging system of medicine called homeopathy.

1850

Female Medical College of Pennsylvania is established to provide the nation's first formal medical training to women.

1867

Female Medical College of Pennsylvania becomes Woman's Medical College of Pennsylvania.

1884

Homeopathic College of Pennsylvania becomes the Hahnemann Medical College and Hospital of Philadelphia.

1970

Woman's College changes name to Medical College of Pennsylvania (MCP).

1982

Hahnemann Medical College and Hospital becomes Hahnemann University.

1988

MCP joins the Allegheny Health, Education and Research Foundation (AHERF).

1993

Hahnemann joins AHERF; Hahnemann and MCP are consolidated as the Allegheny University of the Health Sciences (AUHS).

July 26, 1998

AHERF files for bankruptcy protection.

Sept. 29, 1998

Tenet HealthCare Corp. acquires the eight hospitals in the AHERF system, which includes AUHS.

Oct. 26, 1998

Drexel University Board of Trustees unanimously votes to become Tenet's academic partner in operating MCP Hahnemann University (MCPHU).

Nov. 10, 1998

The Philadelphia Health & Education Corporation (PHEC) is created to oversee AUHS assets and operation of the newly named MCPHU.

Nov. 11, 1998

Drexel University begins operation of MCPHU.

April 25, 2002

Drexel's Board votes to merge MCPHU into Drexel University.

July 1, 2002

Medical School officially becomes Drexel University College of Medicine



MESSAGE FROM THE CHAIRMAN/PRESIDENT

DREXEL FACTS

The College of Medicine is home to the Archives and Special Collections on Women in Medicine, the largest and most comprehensive collection of its kind in North America.

A year after being formally united, the College of Medicine and Drexel University together have achieved technological leadership in health sciences education for the region. The College's financial outlook is stable. Its outstanding students and faculty continue to forge an educational and research collaboration second to none. And exciting synergies are being realized between medicine and Drexel's traditional disciplines.

This is the payoff that the Drexel Board of Trustees foresaw in 1998, when it accepted the invitation to operate the then-bankrupt medical school. At the time, the stakes were high and the risk was great. But that risk paled in comparison to the opportunity we saw.

During its more than 150-year history, the College of Medicine and its predecessor institutions have served the medical profession and the citizens of Philadelphia admirably. The education the College provides, the jobs it embodies and its contributions to treatment and

research were community assets that demanded preservation. Because of the quality of the people and the tradition associated with the College, we were confident of success.

We are building a University for the future, based on the natural affinity between the College of Medicine and Drexel. Both are historic institutions with highly regarded academic profiles. Both are committed to experiential, hands-on learning – Drexel through co-operative education, the College through its residency program and the Program for Integrated Learning. And Drexel and the College of Medicine are perfect partners for an era of technology-based medicine.

In this report, you will read about the people and initiatives responsible for the College of Medicine's bright outlook. We look ahead with great expectations to what they will accomplish by linking technology to a tradition of caring.

MESSAGE FROM THE DEAN



When I took on the challenges of Dean at the College of Medicine more than four years ago, the debt was huge and the recovery from a historic bankruptcy was at a standstill. Since then we have completed a \$50 million financial turnaround and embarked on a plan of excellence to support our continuing academic and clinical growth.

On July 1, 2002, the former MCP Hahnemann University officially became Drexel University College of Medicine in a celebrated union, joining the largest private medical school in the country with a University at the leading edge of technological advancement.

The faculty and staff of the College of Medicine have gained my admiration for their extraordinary resourcefulness, personal sacrifice, uncommon patience and deep commitment to the academic and clinical missions of the College. One hundred years ago, those same qualities were used to describe anyone who chose teaching as a profession. Today, they are

considered exceptional, but at this great institution they are the standard.

The Drexel University College of Medicine has

DREXEL FACTS

During its 155-year history, Drexel University College of Medicine has graduated over 17,500 medical students.

excelled under adverse and changing circumstances, and remains one of Philadelphia's healthcare icons. We understand, perhaps better than most, the challenges that face tomorrow's medical students. With renewed vitality, we have set in motion a new paradigm for medical schools and for a profession that is constantly adapting to new demands. As our students acquire the skills to become accomplished scientists and clinicians, we will also teach them to adapt and grow in a world where political, economic and social events are constantly changing the face of medicine. We face the future proud of our past and certain of our continued success.



THE OLDEST NEW MEDICAL COLLEGE IN AMERICA

Over 150 years ago, two medical colleges were born in Philadelphia – Homeopathic Medical College of Pennsylvania and Female Medical College. Over the years, their names changed to Hahnemann University and Medical College of Pennsylvania. Their paths crossed and ultimately the two consolidated into one institution, MCP Hahnemann University, in 1993.

Five years later, deeply in debt and operating at the lowest ebb in its combined history, the medical college began a period of rebirth. On November 11, 1998, Drexel University accepted the challenge of operating and restoring MCP Hahneman University to vitality as part of a 20-year affiliation agreement with Tenet HealthSystem which includes ongoing financial support from Tenet.

Less than four years later, Drexel had erased the College's \$100 million operating loss while maintaining its legacy of medical and academic excellence -- an extraordinary accomplishment.

And, while the Association of American Medical Colleges reported that 2002 medical school applications were down, our applicant pool in fact increased.

In July 2002, the medical school officially became Drexel University College of Medicine – the oldest new medical college in America – when the Drexel Board of Trustees approved its formal union with Drexel University.

Now the nation's largest private medical school with over 1,000 students currently enrolled, Drexel is building on a legacy of medical excellence, linking a rich tradition of patient-focused quality medical education with nationally-recognized technological leadership.

Many have toiled arduously on the rebirth of this medical college. With the full support of President Constantine Papadakis, the College built a new leadership team of extraordinary talent that is fully committed to creating and



Drexel Signing, June 20, 2002.
MCP Hahnemann, Tenet, Drexel

maintaining the best possible environment for students, faculty, the patients whom they serve and the local community.

Since 1998, a major focus has been the enhancement of our faculty with carefully selected physicians, many of whom are world-renowned in their fields. They have been drawn to this oldest of new schools by the opportunity to build and create as well as discover. By forging the views and approaches of our newest faculty members with the wisdom and perspective of our veterans, we have created an educational environment of world class distinction.

The academic souls of the Homeopathic and Female medical colleges, created so long ago, live on in Drexel University College of Medicine. What we were and what we are now becoming are both great sources of pride.

Drexel University College of Medicine is setting the standard for 21st century medicine. Recognizing the preeminent role of technology in medical breakthroughs, Drexel will continually

DREXEL FACTS

The College of Medicine's Department of Neurobiology and Anatomy has one of the longest-running grants in the U.S. for investigating spinal cord injuries.

leverage the powerful synergies between the College of Medicine and the rest of the University. By combining technological expertise with the art and science of healing, we offer a world-class student-focused training ground for health care professionals and the opportunity for physicians to provide the best possible care to patients while engaging in niche research that is rapidly advancing medical science.

MCP Operating Room 1911





ACADEMIC MISSION

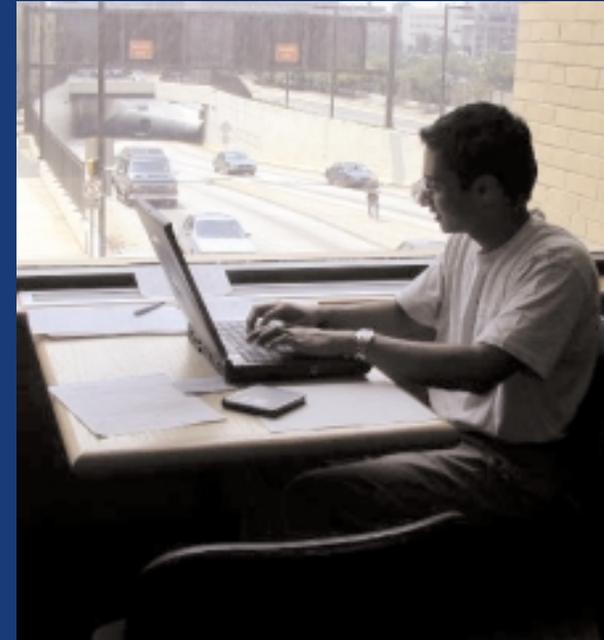
BUILDING ON A TRADITION OF INNOVATION
IN MEDICAL EDUCATION

In less than five years, Drexel University College of Medicine has advanced from an institution in peril to a leader among teaching colleges of medicine in the nation. Fueled by innovative curriculum, an exceptional faculty and cutting edge technology, the College has achieved academic excellence that distinguishes us among our peers.

The College has been instrumental in reshaping the curriculum of medical schools nationwide as one of only 10 medical schools in the country selected to participate in the Millennium Conference on the Clinical Education of Medical Students. Held in 2000 and 2003, the conference is co-sponsored by the Carl J. Shapiro Institute for Education and Research at Harvard Medical School, Beth Israel Deaconess Medical Center, and the Association of American Medical Colleges.

THE **OLDEST NEW** MEDICAL COLLEGE IN AMERICA

ACADEMIC MISSION





ACADEMIC MISSION

CUTTING EDGE CURRICULUM

Since 1998, first- and second-year medical students at Drexel have enjoyed the opportunity to choose one of two innovative curriculum tracks that teach students to think like physicians from their first day on campus.

INTERDISCIPLINARY FOUNDATIONS OF MEDICINE (IFM).

Interdisciplinary Foundations of Medicine (IFM) follows the same interdisciplinary approach that physicians use in treating a patient, looking at the whole patient rather than studying anatomy, physiology and biochemistry in isolation. IFM is integrated around common patient symptoms such as chest pain, for example, so students learn all at once about the anatomy, physiology, biochemistry and embryology of the heart, as well as behavioral science components such as the correlation of depression and heart disease.

PROGRAM FOR INTEGRATED LEARNING (PIL)

Students may also choose the Program for Integrated Learning (PIL), a problem-based curriculum featuring case studies, based on real patients, with students working together in small groups rather than learning through traditional lectures. Students develop the ability to identify the information they need to understand, diagnose and treat clinical problems. The group experience gives each student practice in working as a member of a team and in collaborative problem solving.

EARLY INTRODUCTION TO CLINICAL SKILLS

Drexel University College of Medicine was a pioneer in providing students with patient contact early in their medical school careers. The College was the first in the Philadelphia area -- and one of the first in the nation -- to establish a Clinical Education and Assessment Center (CEAC) where students learn clinical skills by interacting with "standardized patients" -- actors trained to present various symptoms and conditions. This training begins in the first year. In 1999, Drexel was ahead of the curve once again

Two sections of brain tissue: The one on the left reveals no neurological disease and the one on the right reveals Alzheimer's disease.



when the College began requiring students to pass a rigorous clinical skills assessment exam at the end of the third year. Now this innovative reform is being adopted by the National Board of Medical Examiners who plan to add a clinical skills assessment test to the national licensing exam starting in 2004.

INNOVATIVE PATHWAY SYSTEM

Fourth-year students benefit from an innovative curriculum called the pathway system. “Pathways” helps students focus their preparation for graduate medical education and careers. Students choose rotations from 25 discipline-specific pathways. They receive solid exposure to their chosen specialty, or career pathway.

UNIQUE VOLUNTEER AND STAFF FACULTY ENHANCES LEARNING

Drexel University College of Medicine has a unique tradition of involving volunteers as well as full-time faculty in educating medical students. Our students reap a wealth of benefits from the broad experience of over 400 full-time clinicians, 75 basic scientists and nearly 2,100 volunteer clinical faculty. Our volunteer faculty members are carefully chosen for excellence in their fields, a passion for teaching and their ability to offer practical bedside teaching in a wide variety of clinical settings.

TECHNOLOGY TRANSFORMS TEACHING

Since 1998, Drexel University College of Medicine has been transformed into a student-centered rather than classroom-centered campus by an explosion of technology. Drexel is the first

Students learn firsthand how Alzheimer’s and other diseases ravage the brain.

“Advances in medicine . . . have saved vastly more lives than have been lost in all wars in history.”

- Carl Sagan (1934-1996), American scientist and writer



Examining the brain 1897

medical college in the nation to offer wireless Internet access from anywhere on campus. Students can view all lecture notes and course outline material on the Web at their own convenience.

In the 2001-02 academic year, students gained the advantage of viewing any lecture given in the auditorium via the Web within 24 hours of the actual lecture. Providing these lectures on the Web and via CD-ROM enables all students to gain exposure to the best teaching faculty in our entire system, even if they aren't located at the same affiliate sites.

A brand new technological teaching tool being piloted during the 2002-03 academic year is DxR Clinician, a highly sophisticated virtual patient software program. DxR features 95 patient cases,

which can be used to teach diagnostic skills and assess students throughout all four years of medical school. While students conduct virtual physical exams online, DxR Clinician tracks every move the student makes, constantly scoring the way each step is handled and providing an overall assessment and score at the end.

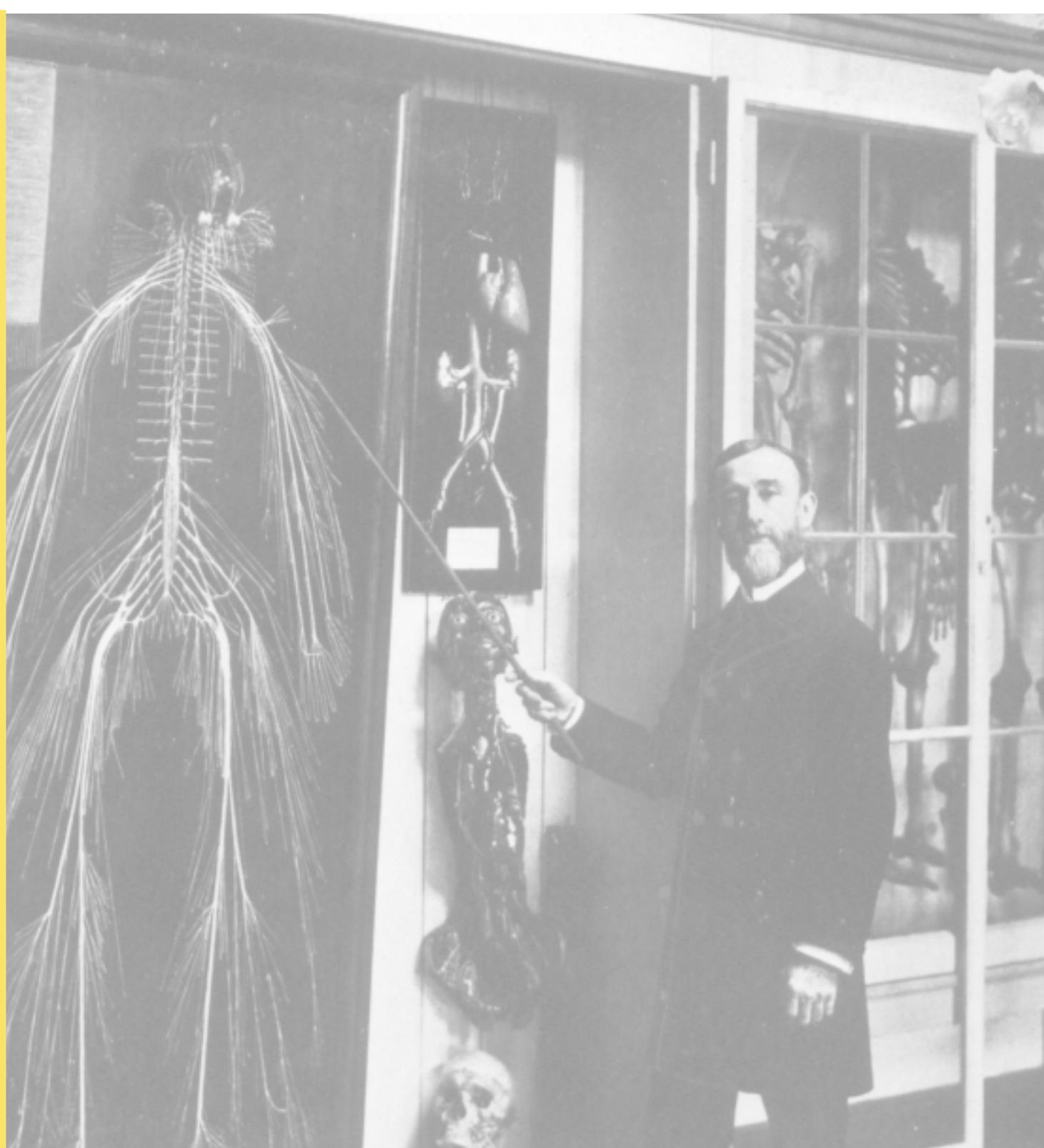
The College of Medicine continuously leverages the most advanced technology to stay on the cutting edge of medical education, thereby linking technology to a tradition of caring.

“Exploration of the full range of our own potentialities is not something that we can safely leave to the chances of life. It is something to be pursued systematically . . . (and) avidly, to the end of our days.”

- John W. Gardner
(1912-2002), American educator and public official

DREXEL FACTS

In 1888, the first complete dissection of the human nervous system was accomplished by Dr. Rufus Weaver, an anatomist at Hahnemann Medical College, a predecessor of Drexel University College of Medicine. His dissection is still on display at the College's Queen Lane campus.





RESEARCH MISSION

A COMMITMENT TO STRATEGIC RESEARCH GROWTH

The purpose of the Research Mission is to support discovery, which sustains and promotes a scholarly environment providing a unique opportunity for students, residents, and faculty to contribute to and train for future innovations in biomedical sciences.

Drexel University College of Medicine is committed to the excellence and vitality of its research enterprise. We are proud to have many individuals and groups of investigators engaged in cutting edge research that has received national and international recognition. Some of our research achievements are summarized on page 13.

In addition to the good done for mankind, the research process itself greatly enriches the educational experience of medical students, broadening and deepening their knowledge in ways that no other aspect of their education can.

Our diverse and prolific research environment provides unparalleled opportunities for our students, residents and faculty.

THE **OLDEST NEW** MEDICAL COLLEGE IN AMERICA

RESEARCH MISSION



RESEARCH MISSION

With great pride in our accomplishments and our eyes on an even more promising future, Drexel University College of Medicine is committed to a plan of strategic research growth in seven key areas:

- cancer
- cardiovascular
- Neurosciences – spinal cord injury, behavioral neurosciences, degenerative disorders and psychiatry
- infectious diseases
- maternal fetal medicine
- bioengineering
- proteomics

The College places annually on the extramural ranking table of the National Institutes of Health (NIH), one of the most important benchmarks of our success as a research-intensive institution. To further improve this critical ranking, we have set an aggressive goal of increasing NIH funding by 82 percent over our 2002 funding levels. We have five primary strategies for reaching these goals:

- Focused investment in select program areas.
- Expanded programs of existing faculty.
- Aggressive recruiting of new faculty.
- Investment in facilities and equipment.
- Enhanced synergies and collaboration.

Some of our most exciting research growth involves collaborations with Drexel University in our areas of excellence – spinal cord injury, malaria, behavioral neurosciences, HIV/AIDS and other infectious diseases, and cardio-vascular research, as summarized at the top of this page.

SELECTED RESEARCH

ENHANCING THE RESEARCH INFRASTRUCTURE

Dynamic research growth also depends on the quality of the research infrastructure. To attract extramural funding which drives research productivity, the College is establishing a Clinical Trials Office. This user-friendly operation will facilitate all activities related to pre-clinical and clinical trials, serving as a “one-stop shop” for pharmaceutical firms, biotech companies, and others providing research funding or collaborating with the College.

During the past year three years, we have enhanced our infrastructure by establishing many new core facilities. These include:

- The Molecular Genomics Laboratory with DNA microarray analysis and the DNA Sequencing Center to assist our investigators in the rapidly expanding field of genomics and gene-expression profiling.
- A \$2 million animal facility upgrade project funded by the NIH. An additional request for \$8 million is pending NIH review.
- Extensive renovation for Neurosciences and Microbiology, including a Center for Molecular Medicine.

BIOMEDICAL GRADUATE STUDIES

The College of Medicine’s Biomedical Graduate Studies is Drexel University’s largest graduate program with over 300 students currently enrolled. In addition to Ph.D. and M.S. degrees in the basic biomedical sciences, the College offers a combined M.D./Ph.D. degree. Since 1998, we have enhanced our graduate program by revising the core curriculum, increasing the number of Ph.D. students accepted each year, and increasing the stipend paid to graduate students by almost 37 percent.

MALARIA

The College of Medicine’s Department of Microbiology and Immunology has a world renowned research program in malaria, led by Akhil Viadya, Ph.D., Professor and Chair, who helped develop the genome sequencing of the three players involved in malaria – the parasite, the mosquito and man. This achievement may lead to new drugs and vaccines against this devastating disease, the world’s third largest killer.



HIV/AIDS

The College of Medicine’s Division of HIV/AIDS Medicine is a key center of HIV/AIDS research and patient care in the Delaware Valley. Currently, researchers are focusing on the treatment of individuals infected with both HIV and hepatitis C virus.

IMPLANTABLE ARTIFICIAL HEART

Drexel University College of Medicine is one of only a few clinical centers in the United States to be selected to participate in the first clinical trials of surgically inserting AbioCor[®], the world’s first fully implantable artificial heart, into an actual patient. In 2001, the College’s Cardiac Transplant team performed Drexel’s first AbioCor artificial implantation and the fifth nationwide on James Quinn, a 51-year old patient. Quinn lived with the heart for nearly 10 months.



ACHIEVEMENTS

CANCER

Jane Clifford, Ph.D., an internationally recognized cancer researcher, joined the College as chair of the Department of Biochemistry in 2000. In addition to building



a cutting edge research department, she has focused research on the control of cellular proliferation in cancer cells at the level of gene transcription with support from the National Cancer Institute.

Other research includes (1) identifying new enzymes involved in DNA repair pathways and exploring the association between cancer and changes in the expression of enzymes involved in DNA and (2) examining pathways involved in antifungal resistance, which is a cause of death in immunocompromised cancer patients.

PROTEIN SCIENCES.

Irwin Chaiken, Ph.D., recently appointed professor in the Department of Biochemistry, directs the A.J. Drexel Institute of Basic and Applied Protein Studies (IBAPS), a new University-wide initiative in Protein Sciences. The goal of the IBAPS is to formulate, develop and promote research and education on the fundamental mechanisms of protein recognition and function and to translate this information into technologies for medicine and other needs of human society and its environment.

AUTISM. Richard P. Malone, M.D., Associate Professor, Department of Psychiatry, received an FDA orphan disease grant for over \$1 million to investigate the safety and efficacy of olanzapine in the treatment of autism, a disease that affects as many as one in 500 children, according to the NIH.



MDA/ALS CENTER OF HOPE. Drexel University College of Medicine's Department of Neuroscience was selected by the Muscular Dystrophy Association (MDA) as the 22nd MDA/ALS Center of Hope, a national site for industry-supported clinical trials involving promising therapeutics for amyotrophic lateral sclerosis (ALS - Lou Gehrig's Disease) and the only such site in this region. The Center's research efforts are led by Terry Heiman-Patterson, M.D., Chief of Neuromuscular Disorders and Director of the ALS Clinic.

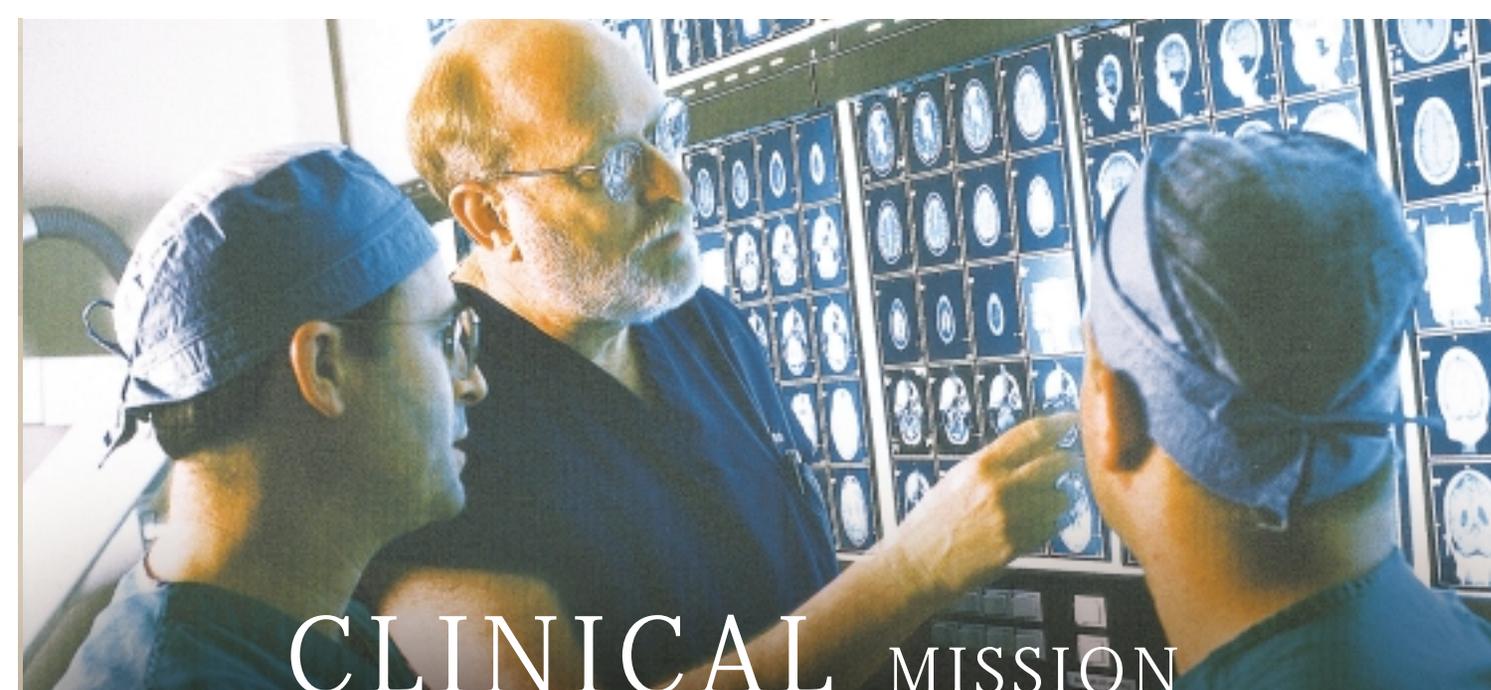
PEDIATRIC NEUROSCIENCE. At St. Christopher's Hospital for Children, an affiliated hospital of Drexel University College of Medicine, NIH-funded research continues on hypoxia and its effect on brain development. This nationally acclaimed program is led by Maria Delivoria Papadopoulos, M.D., principal investigator, and Daniel Schidlow, Chair of Drexel University College of Medicine's Department of Pediatrics.

BUILDING ON COMBINED INVESTIGATIVE STRENGTHS - SELECTED COLLABORATIONS

- Researchers in the College of Medicine's Department of Neurology are collaborating with engineering and technological specialists in Drexel University's School of Engineering to develop neuroprosthetic devices that may help individuals with spinal cord injuries or disease regain function. A parallel project involves developing neurobotic devices that will interact with the brain and function by mimicking the way the brain works.
- The College of Medicine's Department of Surgery, including residents, is collaborating with Drexel University's School of Engineering on robotics and minimally invasive surgery.
- Clinicians and clinical researchers in the College of Medicine's Department of Orthopedics are working with Drexel's College of Engineering to develop more effective devices for performing orthopedic surgery.

Herring Clinical Laboratory 1918





CLINICAL MISSION

At Drexel University College of Medicine, our students learn to care for patients, not just treat them. They are taught at the bedside and in the classroom by top clinicians.

Collaborations among our clinical faculty have received national and international recognition, particularly in the areas of cardiovascular services, liver transplants, neurosciences, women's health and sports medicine. Selected achievements in our clinical areas of excellence are summarized on page 17.

GRADUATE MEDICAL EDUCATION

Drexel University College of Medicine offers residents a full range of training at primary and affiliated hospital sites located throughout the Greater Philadelphia region. Our 18 residency programs provide an exceptionally well-rounded clinical experience with opportunities in primary, secondary, and tertiary care and exposure to the most current research, technologies, treatments, and resources. Fellowship programs are available in 18 disciplines.

THE **OLDEST NEW** MEDICAL COLLEGE IN AMERICA

CLINICAL MISSION

CLINICAL MISSION



The Heart Patch

Since 1998, the College has maintained a resident staff of nearly 600 with a strong focus on recruiting residents from high-caliber American medical schools, including Harvard, New York University and Columbia. As a result of our recruiting initiatives, the number of residents coming to Drexel from U.S. medical schools is about 77 percent today. At the same time, the number of Drexel medical students matching with the College's residency program doubled.

During the past few years, we have taken a number of steps to enhance our residents' working conditions and quality of life. The College was brought into full compliance with the federally mandated 80-hour work week in July 2002, one full year before law required it. We have also increased resident salaries and benefits and improved other important aspects of their working conditions.

AFFILIATED HOSPITALS ENRICH EDUCATION

Drexel medical students enjoy some of their most significant experiences at our affiliated hospitals, chosen for their medical excellence as well as commitment to teaching.

In 1998, Tenet HealthSystem acquired the three hospitals that comprise the College's principal teaching sites in Philadelphia:

- Hahnemann University Hospital. Founded in 1885, this 618-bed tertiary care facility is a leader in cutting edge surgical, interventional and medical techniques.
- MCP Hospital, founded in 1850 as part of the first medical school to train women in medicine, is now a 379-bed facility that distinguishes itself as a premier academic medical center as well as a provider of community health care.
- St. Christopher's Hospital. This 183-bed facility, founded in 1875, was recently named one of the top 25 pediatric hospitals in America by U.S. News and World Report.



Through a 20-year affiliation agreement between Tenet HealthSystem and the Drexel University College of Medicine, these hospitals continue as three of our primary teaching sites.

Drexel University College of Medicine also maintains a campus in western Pennsylvania through its affiliation with Allegheny General Hospital in Pittsburgh, named one of the top hospitals in America by U.S. News and World Report. Founded in 1886 this world class 698-bed academic health center serves as one of our primary teaching sites for medical students as well as residents. Recognized internationally as a preeminent oncology center, Allegheny General opened a new \$30 million state-of-the-art cancer center in 2002. Currently, 80 Drexel medical students are studying at this site.

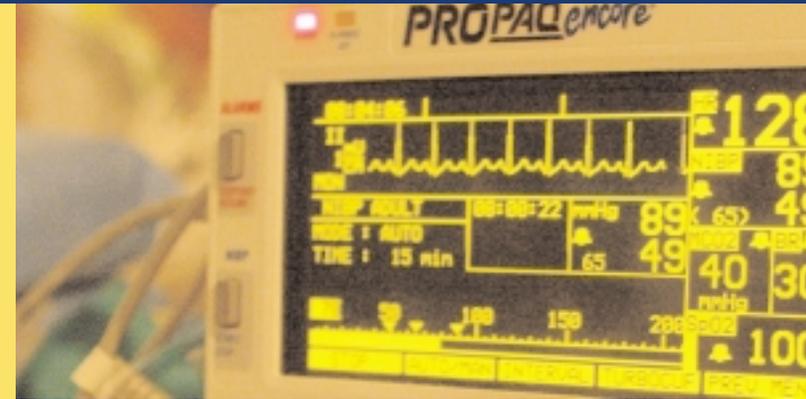
The College continuously explores opportunities to add more affiliated hospitals that will further enhance the medical education we offer, choosing sites to accommodate students who wish to work in small community hospitals as well as those who prefer big-city tertiary care.



OTHER AFFILIATED HOSPITALS

- Capital Health System, Trenton, NJ
- Crozer-Chester Medical Center, Upland, PA
- Chestnut Hill Hospital, Philadelphia, PA
- Eagleville Hospital, Eagleville, PA
- Easton Hospital, Easton, PA
- Elkins Park Hospital, Elkins Park, PA
- Forbes Regional Hospital, Monroeville, PA
- Graduate Hospital, Philadelphia, PA
- Guthrie Clinic/Robert Packer Hospital, Sayre, PA
- Hamot Medical Center, Erie, PA
- Lehigh Valley Hospital, Allentown, PA
- Meadville Medical Center, Meadville, PA
- Mercy Catholic Medical Center, Darby, PA
- Monmouth Medical Center, Monmouth, NJ
- Montgomery Hospital, Norristown, PA
- Parkview Hospital, Philadelphia, PA
- Reading Hospital, Reading, PA
- Warminster Hospital, Warminster, PA
- Wyoming Valley Health Care System, Kingston, PA

CLINICAL AREAS OF EXCELLENCE



CUTTING EDGE CARDIOVASCULAR MEDICINE

The College of Medicine's Professor and Director of Interventional Cardiovascular Medicine Sheldon Goldberg, M.D., F.A.C.C., and Dan McCormick, M.D., Director of the Cardiac Cath-eterization Lab at Hahnemann University Hospital, are the area's leading physicians in utilizing the CardioSEAL' treatment methodology for repairing a congenital heart defect known as PFO – Patent Foramen Ovale. The highly effective, minimally-invasive outpatient operation – less than three years old in the U.S. – is performed in one hour at 40 percent of the cost of major, open heart surgery.

LIVER TRANSPLANTS

In 2002, William Meyers, M.D., Chair of the Department of Surgery and an internationally celebrated liver surgeon, launched a Liver Transplant Team of distinguished clinicians: Burckhardt Ringe, M.D., a world-prominent transplant surgeon; Michael J. Moritz, M.D. and Gillian A. Zeldin, M.D. The team successfully completed the first liver transplant at Hahnemann University Hospital in 2002 and, in less than a year, has become one of the leading transplant teams in Philadelphia.



WOMEN'S HEALTH, CLINICAL EDUCATION AND RESEARCH

Drexel University College of Medicine's Center for Genetics, Fetal and Maternal Medicine has added 4-D ultrasound to its state-of-the-art technology in repro-ductive, obstetrical and gynecological ultrasound. Ronald Wapner, M.D., Chair of the Department of Obstetrics and Gynecology and an internationally re-nowned high-risk obstetrician and medical geneticist, has assembled a world-class team of fetal and reproductive genetic physicians for this cutting edge center.

The Institute for Women's Health & Leadership reflects the College of Medicine's historic commitment to the advancement of women's health through increased knowledge, enhanced quality of care and the growth of women in medical leadership. Designated a Center of Excellence in Women's Health by the U.S. Department of Health and Human Services, the Institute is one of only six such centers in the country and the only one in the Greater Philadelphia region. In 2002, the Institute implemented vigorous community outreach programs advocating healthy behavior to improve the health and quality of life for women of all ages.

CLINICAL AREAS OF EXCELLENCE



NEUROSURGERY

H. Warren Goldman, M.D., Chair and Professor of Drexel University College of Medicine's Department of Neurosurgery, was the first neurosurgeon in Philadelphia to use state-of-the-art steerable neuroendoscopy to perform minimally invasive brain surgery (MIBS). Soon, Dr. Goldman will begin performing brain surgery with the College of Medicine's brand new Gamma Knife, an advanced radiosurgical tool acquired in 2003. The College's cutting edge technology also includes the stereotactic probe and intra-operative MRI system.



The Department of Neurosurgery welcomed a distinguished new professor to its staff, Frederick A. Simeone, M.D. A groundbreaking neurosurgeon and authority on cerebral vascular physiology and the treatment of spinal disorders, Dr. Simeone also heads the Simeone Center for Neurosurgery at MCP Hospital, which provides comprehensive treatment for cerebral and spinal disease.



MINIMALLY INVASIVE SURGERY

The College of Medicine's new Vice Chair of Surgery Paul G. Curcillo II, M.D. is one of the busiest and most innovative surgeons in Philadelphia. At his request, Tenet HealthSystem agreed to invest \$1.2 million in the state-of-the-art daVinci robotics surgical system. He is the first surgeon in Philadelphia to perform an entire surgical procedure with a robotic extension of his own hands and wrists, using the daVinci.

SPORTS MEDICINE

Through the College of Medicine's affiliation with Tenet HealthSystem, several faculty members became team physicians for the Philadelphia Eagles, Philadelphia Flyers and Philadelphia Phantoms. The College's sports medicine team has also taken over as physicians for Drexel University's athletes and Student Health program.

"The most essential part of a student's instruction is obtained, as I believe, not in the lecture room, but at the bedside."

- *Oliver Wendell Holmes, Sr. (1809-1894), American physician and man of letters*

COMMUNITY OUTREACH



Drexel University College of Medicine students and faculty are involved in many community outreach projects. Sixteen hours of community work is a required part of the first-year curriculum, and more than 50 percent of the students perform additional volunteer work because they are committed to helping people - particularly people who are at high risk for injury or illness. The community outreach program gives students a rich, rewarding experience that broadens their perspective on both medicine and the world.

Students serve people who span the entire age and demographic range of the population, including children and youth, women, elderly populations, sexual minorities, addictive disorders, immigrant populations, victims of abuse, and others. Students volunteer in a variety of settings, including:

- Health Promotion / Disease and Injury Prevention
- Treatment, Support, and Rehabilitation
- Academic Retention
- Family Intervention
- Advocacy/Policy and Planning

HEALTH OUTREACH PROJECTS

This student run organization provides access to basic health services for underserved individuals in Philadelphia through a network of free clinics. The initiative is driven by volunteer spirit and energy from students and clinicians, and is funded by university and corporate in-kind contributions and external grant support.

The Chinatown Healthcare Outreach Project provides healthcare services to a large disadvantaged Asian population, consisting of recent immigrants who have

no health insurance. Most use Mandarin or Indonesian as a primary language but translators are available.

BRIDGING THE GAPS

Drexel medical students help to provide care to disadvantaged populations through this community-based summer internship program.

PEDIATRIC AIDS BENEFIT CONCERT

Talented physicians and students from the College of Medicine performed at the Ninth Annual Pediatrics AIDS Benefit Concert, raising over \$160,000 for the Family HIV Clinic at St. Christopher's Hospital for Children.

"CELEBRATE HEALTH" FAIR

Drexel University and Tenet HealthCare co-sponsor an annual health fair at City Hall's Dilworth Plaza in Philadelphia. Drexel medical students staff health education booths covering cancer, heart health and preventive care, exercise and weight loss, and bioterrorism.

TECHNOLOGY



Radiation Oncology Positioning Device

LINKING TECHNOLOGY TO A TRADITION OF CARING

TECHNOLOGY TRANSFORMS MEDICAL EDUCATION

Drexel University College of Medicine continuously leverages the most advanced technology to stay on the cutting edge of medical education.

SELECTED ACHIEVEMENTS

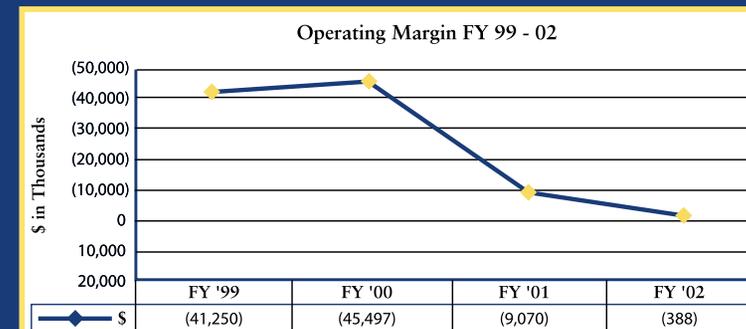
- Drexel is the first medical college in the nation to offer wireless Internet access from anywhere on campus. Students can view all lecture notes and course outline material on the Web at their own convenience. Students can also view any lecture given in the auditorium via the Web within 24 hours of the actual lecture.
- Cutting edge technology used by the College of Medicine's Department of Neurosurgery includes state-of-the-art steerable neuroendoscopy, the stereotactic probe, intraoperative MRI system and the Gamma Knife, a radiosurgical tool acquired in 2003.
- Tenet HealthSystem invested \$1.2 million in the state-of-the-art daVinci robotics surgical system for the College of Medicine in 2002.

- Researchers in the College of Medicine's Department of Neurology are collaborating with engineering and technological specialists in Drexel University's School of Engineering to develop neuroprosthetic devices that may help individuals with spinal cord injuries or disease regain function. A parallel project involves developing neurobotic devices that will interact with the brain and function by mimicking the way the brain works.
- All third-year medical students at Drexel are required to have a hand-held computer, also known as a PDA (Personal Digital Assistant) to be used for patient and procedure logging in each of the clerkships. All College of Medicine faculty members also use PDAs.
- DxR Clinician, a highly sophisticated virtual patient software program, was piloted during the 2002-03 academic year.

DREXEL FACTS

Drexel is the first medical college in the nation to offer wireless Internet access from anywhere on campus.

FINANCIAL HEALTH



Financial Review

Drexel University College of Medicine
Fiscal Years Ending June 30, 2002 and 2001
(\$ in Thousands)

	2002	%	2001	%
Physician Services	67,240	33.3%	63,988	32.9%
Grants and Contracts	34,146	16.9%	30,561	15.7%
Tuition and Fees	32,826	16.3%	31,562	16.2%
Endowment Payout	6,281	3.1%	8,571	4.4%
State Appropriations	12,327	6.1%	12,850	6.6%
Contributions	5,545	2.7%	5,142	2.6%
Affiliate Support	38,470	19.1%	35,713	18.3%
Investment Income	172	0.1%	519	0.3%
Other Income	4,748	2.4%	5,729	3.0%
Operating Revenue	201,755	100.0%	194,635	100.0%
Salaries and Wages	113,680	56.2%	109,722	53.9%
Fringe Benefits	16,988	8.4%	14,618	7.2%
Insurance	8,918	4.4%	6,780	3.3%
Depreciation	4,183	2.1%	3,650	1.8%
Interest Expense	169	0.1%	241	0.1%
Master lease space	13,340	6.6%	15,183	7.5%
Other	44,865	22.2%	53,511	26.2%
Operating Expenses	202,143	100.0%	203,705	100.0%
Operating Margin	(388)		(9,070)	
Non-Operating Activity, net	(11,765)		897	
Increase/(Decrease) in Net Assets	(12,153)		(8,173)	

Statement of Financial Position

Drexel University College of Medicine
Fiscal Years Ending June 30, 2002 and 2001
(\$ in Thousands)

	2002	2001
Assets		
Cash and cash equivalents	284	1,078
Accounts receivable	25,370	18,818
Student loans receivable, net	15,580	18,247
Investments	69,879	91,558
Property and equipment, net	27,501	19,229
Other assets	2,822	1,648
Total Assets	141,436	150,578
Liabilities and Net Assets:		
Liabilities:		
Accounts payable and Accrued Expenses	21,954	19,724
Deferred revenue	6,102	4,609
Capital leases	2,133	3,379
Government advance for student loans	18,162	17,628
Total Liabilities	48,351	45,340
Net assets:		
Unrestricted	24,090	37,979
Temporarily restricted	9,437	9,404
Permanently restricted	59,558	57,855
Total Net Assets	93,085	105,238
Total Liabilities and Net Assets	141,436	150,578



**Drexel University
College of Medicine**
In the tradition of Woman's Medical College of
Pennsylvania and Hahnemann Medical College

THE OLDEST NEW

NATIONAL LEADERS AMONG OUR ALUMNI

The exceptional academic training provided at Drexel University College of Medicine prepares graduates for prestigious positions of leadership.



Richard Corlin, M.D., a 19__ graduate of Hahnemann University, served as president of the American Medical Association in 2002.



Mary Simmonds, M.D. who graduated from Medical College of Pennsylvania in 19__, currently serves as president and national chair of the American Cancer Society.



Larry Marc Bush, MD, FACP, MCP Class of 1982, diagnosed, treated and reported the first case of inhalational anthrax and alerted the country to the first case of bioterrorism in the United States in 2001. He has been praised for his prompt action by the Infectious Diseases Society of America, Drexel University College of Medicine, the New York Times and The Nation.



Kate Baldwin, Woman's Medical College, Class of 1890

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