


UT SOUTHWESTERN MEDICAL CENTER

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UT Southwestern Medical Center

The University of Texas Southwestern Medical Center ranks among the top academic medical centers in the world. Its faculty members – who are responsible for a broad array of groundbreaking biomedical research advances – are respected for their dedication to teaching. UT Southwestern's physicians provide patients with the highest quality of care throughout the medical center's outpatient clinics and affiliated hospitals.

The medical center has three degree-granting institutions: UT Southwestern Medical School, UT Southwestern Graduate School of Biomedical Sciences and UT Southwestern School of Health Professions.

- The schools train nearly 4,400 medical, graduate and allied health students, residents and postdoctoral fellows each year.
- Ongoing support from federal agencies such as the National Institutes of Health, along with foundations, individuals and corporations provide nearly $400 million per year to fund about 3,500 research projects.
- Faculty and residents provide care to nearly 97,000 hospitalized patients and oversee 1.8 million outpatient visits a year.
- UT Southwestern has approximately 10,400 employees and a 2008-09 operating budget of almost $1.5 billion.

Mission

- To improve health care in our community, Texas, our nation, and the world through innovation and education.
- To educate the next generation of leaders in patient care, biomedical science and disease prevention.
- To conduct high-impact, internationally recognized research.
- To deliver patient care that brings UT Southwestern's scientific advances to the bedside – focusing on quality, safety and service.

UT Southwestern Medical School

One of four medical schools in The University of Texas System and one of eight in the state of Texas, UT Southwestern admits about 230 students each year, and admission is highly competitive.

Medical students are taught the basic sciences and fundamental mechanisms of disease during the first two years, along with basic clinical skills. For the second two years, they pursue clinical courses in a variety of medical specialties at UT Southwestern's affiliated teaching hospitals and clinics.

The Medical Scientist Training Program prepares individuals for medical careers that will include biomedical research as well as the application of research discoveries to the practice of medicine. The program awards combined M.D. and Ph.D. degrees. With major financial support from the Perot Foundation and the National Institutes of Health, the program provides fellowships to more than 100 exceptionally talented medical scientists.

Faculty members continue to educate physicians beyond medical school. They annually train more than 1,350 clinical residents who are supplementing their M.D. education with postgraduate specialty and subspecialty training, the largest number in Texas. Faculty members also provide continuing medical education. Attendance in 2008 totaled almost 37,300 participants at 1,140 activities.

Faculty members also serve as educational resources to thousands of science teachers at hundreds of schools in North Texas through the Science Teacher Access to Resources at Southwestern (STARS) program.

UT Southwestern Graduate School of Biomedical Sciences

The graduate school, with more than 700 students enrolled, educates biomedical scientists, counselors, engineers and communicators. Programs lead to Doctor of Philosophy, Master of Arts, Master of Clinical Sciences and Master of Science degrees.

Eight programs form the Division of Basic Science. Future scientists are trained to investigate basic life processes from the molecular level to the whole animal. Students pursue their majors in the laboratories of some of the world's most distinguished researchers.

Ph.D. programs may be completed in Biological Chemistry, Cancer Biology, Cell Biology, Cell Regulation, Genetics and Development, Immunology, Integrative Biology, Mechanisms of Disease, Molecular Biophysics, Molecular Microbiology, Neuroscience, Pharmacology, and Quantitative Biology.

The Division of Clinical Science offers programs in Clinical Psychology-Ph.D.; Clinical Science-M.S.; and Radiological Sciences-M.S., Ph.D.

The Division of Applied Science has programs in Biomedical Communications-M.A.; and Biomedical Engineering (a joint program with UT Arlington)-M.S., Ph.D.

UT Southwestern School of Health Professions

In addition to physicians, there are a myriad of professionals who care for the sick and injured, perform diagnostic tests, and provide therapy for physically challenged individuals. These are allied health professionals, and their jobs span many areas of health care.

Nearly 300 students are enrolled in the UT Southwestern School of Health Professions. The school offers bachelor's degrees in Clinical Dietetics, Medical Technology and Prosthetics-Orthotics; master's degrees in Physical Therapy, Physician Assistant Studies and Rehabilitation Counseling Psychology; a doctoral degree in Physical Therapy and certificate programs in Blood Bank Technology, Clinical Dietetics, Emergency Medicine Education (EMT/Paramedic) and Medical Technology.

Outstanding Faculty

The excellence of any educational institution is determined by the caliber of its faculty. UT Southwestern's faculty has many distinguished members, including:

- Four Nobel laureates, three of whom are active faculty members.

• In 1985 ***Drs. Michael Brown and Joseph Goldstein*** shared the Nobel Prize in physiology or medicine for their discovery of the basic mechanism of cholesterol metabolism. Dr. Goldstein is chairman of molecular genetics at UT Southwestern. Dr. Brown directs the Erik Jonsson Center for Research in Molecular Genetics and Human Disease.

• ***Dr. Johann Deisenhofer,*** professor of biochemistry and investigator in the Howard Hughes Medical Institute at UT Southwestern, shared the 1988 Nobel Prize in chemistry for using X-ray crystallography to describe the structure of a protein involved in photosynthesis.

• ***Dr. Alfred Gilman,*** currently chief scientific officer of the Cancer Prevention and Research Institute of Texas, shared the 1994 Nobel Prize in physiology or medicine for the discovery of G proteins and the role they play in the complex processes by which cells communicate with each other. A Regental Professor Emeritus of pharmacology, Dr. Gilman last served UT Southwestern as dean of UT Southwestern Medical School and chairman of pharmacology.

- 18 members of the National Academy of Sciences (NAS), one of the highest honors attainable by an American scientist.
- 18 members of the Institute of Medicine, a component of the NAS.

Research

Research is the cornerstone upon which world-class medical education and patient care are built. UT Southwestern ranked first among all federally funded American universities, research institutes, and medical centers in the production of highly cited research papers in biology and biochemistry between 2001 through 2005. The elite rank was compiled by *Science Watch*, an independent publication that reports on trends and performances in basic research.

Investigations into cancer, neuroscience, heart disease and stroke, arthritis, diabetes, and many other fields keep UT Southwestern at the forefront of medical progress.

At UT Southwestern, research on basic life processes and research on specific diseases go hand in hand. Investigators' discoveries form the foundation for new ways to prevent or treat disease.

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Patient Care

The physician faculty of UT Southwestern offers patient care at UT Southwestern University Hospitals, Parkland Health & Hospital System, Children's Medical Center Dallas, VA North Texas Health Care System, and other affiliated hospitals and clinics in Dallas, Fort Worth and North Texas communities. Faculty physicians provide $358 million in unreimbursed services annually.

The university's 452-bed hospitals, located in the St. Paul and Zale Lipshy buildings, offer patients superior care and outstanding service provided by a highly trained staff. Part of UT Southwestern since 2005, the hospitals are a crucial component to the medical center's further development and its delivery of world-class patient care.

The Zale Lipshy facility is home to one of the world's premier neurological treatment centers. Its neuroangiography unit is a vitally important factor in the diagnosis and treatment of neurological disease. Physicians specialize in diagnosing and treating patients with hematologic malignancies. Other specialties include urology, ophthalmology and rehabilitation.

Within the St. Paul building are specialty practices in cardiology, emergency medicine, internal medicine, general surgery, obstetrics and gynecology, and orthopaedics. It also houses the Heart and Lung Transplant Program, as well as a level III neonatal intensive care unit.

Parkland Memorial Hospital, a 983-bed facility, is the primary teaching institution of UT Southwestern, whose faculty are responsible for caring for all of the hospital's patients. More than half of the doctors practicing in Dallas received some or all of their training at Parkland and UT Southwestern.

Children's Medical Center Dallas is the primary pediatric teaching hospital for UT Southwestern, whose pediatric faculty are members of Children's medical staff. Children's is licensed for 406 beds, has more than 50 pediatric specialty programs, and is the only pediatric hospital in the Southwest with a designated Level I trauma center.

UT Southwestern's Clinical Services Initiative, a program aimed at making individuals' interactions with the health-care system humane and patient-friendly, was launched in 2003. The $100 million initiative is intended to transform care by providing highly trained staff, enhancing accessibility, and improving communication and record-keeping. One example of this is MyChart, which allows patients to have secure, personal Internet access to their individual health records.

Clinical expertise

Physicians and researchers at UT Southwestern are seamlessly integrating breakthroughs in basic science, advances in comprehensive clinical services and the development of innovative education and prevention programs to propel overall excellence and set the medical center apart.

A few examples of the medical center's encompassing care include:

The Harold C. Simmons Comprehensive Cancer Center combines the highest standards of individual care with innovative programs for cancer diagnosis, treatment and prevention. The expertise of its physicians extends to every cancer, from breast, urologic, gynecologic, lung, gastrointestinal, head and neck, brain, and skin to lymphomas, leukemia, and bone marrow transplantation.

The Doris and Harry W. Bass Jr. Clinical Center for Heart, Lung and Vascular Disease is a collaborative effort between UT Southwestern faculty and community physicians. Seamless, individualized care is available for adult congenital heart disease, cardiac imaging, cardiovascular and thoracic surgery, electrophysiology, general cardiology, heart failure, heart and lung transplant, interventional cardiology, interventional radiology, lung transplant pulmonology, mechanical circulatory assistance, preventive cardiology, pulmonary hypertension, and vascular and endovascular surgery.

UT Southwestern neurological services comprise several areas of excellence. Neurological surgeons have performed more surgeries to prevent aneurysmal hemorrhage than in any other medical center in the U.S. Neurosurgeons and neuroradiologists work together with the most sophisticated technology available to plan recovery treatments and prevent future strokes. Clinicians and researchers also work together to treat and to find the root causes of Alzheimer's disease, Parkinson's disease, multiple sclerosis, amyotrophic lateral sclerosis, epilepsy and dystonias.

The Kidney and Pancreas Transplantation Program is nationally recognized and staffed by top physicians in the field. The first kidney transplant in Texas was performed in 1964 by a UT Southwestern surgeon. Over the last 40 years, UT Southwestern physicians have pioneered innovations in transplantation care that have become the accepted practice throughout the nation. Patients also benefit from advanced technologies in minimally invasive surgery and expertise in immunology, kidney disease and diabetes.

www.utsouthwestern.org

Southwestern Medical Foundation

In 1943 Southwestern Medical Foundation established Southwestern Medical College. Since donating the school to the UT System in 1949, the Foundation has remained dedicated to supporting UT Southwestern and its affiliated institutions, playing an important role in its growth as one of the nation's leading biomedical centers.

www.swmedical.org

Quick Numbers

Current Student Enrollment (Fall 2008)

UT Southwestern Medical School 923
UT Southwestern Graduate School of Biomedical Sciences 730
UT Southwestern School of Health Professions 280
Clinical residents 1,350
Postdoctoral fellows 1,102

Degrees Conferred 2007-2008

M.D. 221
Ph.D. 79
M.A./M.S. 28
M.P.T./M.P.A.S. 99
B.S. 47

Cumulative Degrees Conferred (through Fall 2008)

UT Southwestern Medical School 9,293
UT Southwestern Graduate School of Biomedical Sciences 2,122
UT Southwestern School of Health Professions 4,511

Funding

2007-08 operating funds . . . . . $1.453 billion
State appropriations 11%
Federal grants and contracts 14%
Hospital revenues 23%
Clinical services 25%
Private grants, gifts and other income 27%

Research Programs

2007-08 expenditures . . . . . $398.4 million

Faculty (Fall 2008)

Regular full-time faculty 1,651
Part-time faculty 441
Faculty associates 102
Faculty administrators 29
Volunteer faculty 1,523

Staff

Administrative/professional 317
Full-time classified 7,197
Part-time and hourly classified 596

Physical Plant

Building space (square feet) . . . . . 10.8 million
Projects under construction and in design (square feet) 582,000

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