



As the first academic health center in Texas and among the oldest in the nation, the University of Texas Medical Branch has helped define health care for generations. Throughout its distinguished history, UTMB has provided Texas a diverse and highly skilled health professions work force, advancements in the understanding and treatment of illness and injury, and a leading source of medical care for patients from throughout the state. Today, despite challenges posed by Hurricane Ike, UTMB remains a home of continued educational, research and clinical excellence, committed to ensuring better health—and a better life—for the people of Texas and beyond, well into the future.

THE FIRSTS KEEP COMING: The 1890 Ashbel Smith Building, the first public medical school in Texas; the 1925 Keiller Building, adjacent to the site of the first full-sized biosafety level 4 lab at a U.S. university; the Galveston National Laboratory, the only national laboratory in Texas, dedicated November 2009

UTMB Before and After Hurricane Ike

Pre-Ike (as of Aug. 31, 2008)	Post-Ike (as of April 30, 2009)
12,588 employees	10,634 employees
2,338 medical, nursing, health professions and graduate students, including 2,094 Texans from 122 counties throughout the state (fall 2008)	Coursework resumed within 2 to 5 weeks of the storm; all residents relocated to alternative training sites within 2 weeks
\$154 million in federal research funding, including \$106 million from National Institutes of Health (37th in NIH ranking)	Research enterprise 95% restored; more than \$60 million in additional research funding since Ike, including \$10.9 million for clinical proteomics center for infectious diseases and biodefense
8,700 new Texans delivered in Galveston and Austin	Beds for women/newborns available 1 month after Ike; 3,095 babies delivered in Galveston since October; Regional Maternal and Child Health clinics began seeing patients 2 days after the storm
3rd largest hospital in Houston-Galveston region	John Sealy Hospital reopened Jan. 5; current bed count of 310; about 80 on- and off-island clinics offering full range of primary and specialty services; nearly 323,000 clinic visits and 8,700 hospital admissions recorded
Level 1 Trauma Center rated first in the nation for survival rates shortly before the hurricane	Working to restore appropriate level of emergency/trauma services by summer 2009; operating 24/7 urgent care center in ER facility until then

\$1.5 billion budget

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Direct and indirect economic impact of more than \$500 million in business volume for Houston-Galveston region and more than \$1 billion for state of Texas (2007 study)

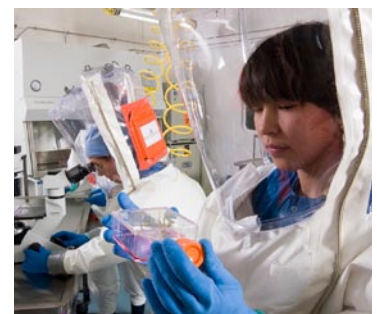
Developing the Health Workforce of Tomorrow

- Home to state's first schools of medicine, nursing and health professions in Texas
- More than 27,000 degrees awarded since its founding; UTMB has educated more Texas physicians than any other university
- 697 residents and fellows based in Galveston and Austin
- Dynamic curricula focus on training students to work as part of inter-professional teams in problem-based scenarios they are likely to encounter in practice, ensuring the proper combination of skills that provides continuity of care for patients and their families
- UTMB medical and nursing students surpass national averages and passing rates on board exams
- The first public institution in Texas to offer a doctoral degree in clinical science, through its Graduate School of Biomedical Sciences; program provides advanced training needed to effectively translate research findings into viable treatments
- Texas Higher Education Coordinating Board recently approved an MD-Master of Public Health dual degree program for medical students
- *Chronicle of Higher Education* ranked Rehabilitation Sciences PhD curriculum 8th nationally
- Graduate programs in Physician Assistant Studies, Occupational Therapy and Physical Therapy ranked among the top 10 in the nation by *U.S. News and World Report*
- Innovative patient simulation program benefits students, postgraduates and practitioners
- UTMB medical students match to high-profile residency programs nationwide; more than half remain in Texas and about 20 percent choose a UTMB residency or fellowship program
- Crucial player in advancing health education in Texas
 - o School of Nursing's award-winning distance education programs, begun in 1988, address a critical shortage of nurses in rural areas of Texas
 - o School of Health Professions has helped launch programs in occupational therapy, physical therapy, physician assistant studies and clinical laboratory sciences throughout the state, providing distance education and consultation until home universities can operate programs independently
- A leader in training a diverse workforce to care for an increasingly diverse population
 - o Enrolled the first Hispanic medical student in Texas in 1917; consistently known as a leader in graduating Hispanic medical students; recognized in 2008 by Hispanic Business magazine as one of the best medical schools in the nation for Hispanic students
 - o Enrolled the first African-American to attend medical school in Texas in 1949
 - o Medical School Class of 2011 accepted more students from underrepresented groups than any other public medical school in Texas
 - o Numerous programs to reach out to economically or educationally disadvantaged students

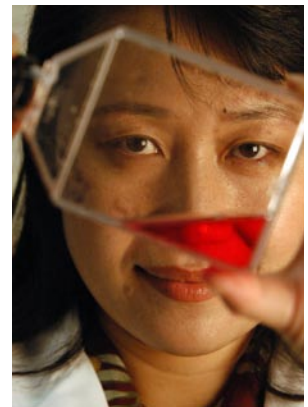


Conducting World-Class Research with Texas Roots

- International leader in infectious diseases research—www.utmb.edu/ihii
 - o Galveston National Laboratory for the safe study of infectious threats to health dedicated November 2008; first and only national lab in Texas; \$174 million from NIH and \$59 million in state matching funds
 - o Lead agency for the five-state Western Regional Center of Excellence for Biodefense and Infectious Diseases Research
 - o Only university in the U.S. to garner both the national laboratory and center of excellence grants
 - o More than 200 researchers currently devoted to such research
 - o Pediatrics Department/Sealy Center for Vaccine Development received the first Bill and Melinda Gates Foundation research grant to a Texas school (\$9.5 million for flu vaccine development)
 - o Hepatitis C Cooperative Research Center at UTMB manages consortium including Southwest Foundation for Research, Johns Hopkins University and University of Washington—Seattle
 - o Global Health Program to utilize telemedicine capability to conduct global grand rounds for exchange of expertise
 - o \$1.75 million in federal funding to develop a Pilot BSL4 Facility at UTMB to help set national standards for training personnel to work in high- and maximum-containment environments
 - o Three UT System STAR award recipients on faculty



- UTMB is the only medical school to have received a clinical proteomics contract from the NIH
- Faculty play a lead role in Mission Connect, a consortium led by The Institute for Rehabilitation and Research (TIIR) that includes UT Health Science Center at Houston, Texas A&M and Baylor College of Medicine; dedicated to reversing the effects of spinal cord and brain injury
- Seven School of Medicine departments ranked in the Top 20 among their peers for NIH funding, including three ranked among the top 10; overall, UTMB ranks 41st in NIH funding to medical schools
- UTMB's Obstetrics and Gynecology Department, ranked 6th in NIH funding, is the only one in the nation to be included in all four major research networks of the National Institute of Child Health and Human Development
- School of Health Professions is ranked in the NIH Top 10
- At the forefront of molecular medicine, a line of scientific and clinical inquiry that underpins our research endeavors and promises personalized, predictive, pre-emptive care
- Additional research strengths
 - o Environmental health and asthma—www.niehs.utmb.edu
 - o Aging and longevity—www.utmb.edu/aging
 - o Cancer—www.utmb.edu/cancer
 - o Burns, traumatic injury and inflammation (see also: Advancing Patient Care for Texas and Beyond)
 - o Diabetes—www.stark-diabetes.org
- Extensive collaborations with NASA and commercial space companies
- Abundant active research collaborations with Texas A&M System institutions (topics ranging from infectious diseases and marine biomedicine to building diversity in biomedical graduate programs)



Advancing Patient Care for Texas and Beyond

- John Sealy Hospital services include women's, infants' and children's care, medical/surgical services, acute care for the elderly, transplant services, burns care, and critical care, among others
- About 80 primary and specialty clinics open on Galveston Island and the mainland
- UTMB Specialty Care Center at Victory Lakes scheduled to open in early 2010; will complement existing medical services in north Galveston County and south Harris County
- More than 66,000 telemedicine encounters every year—the largest such program in the world; AT&T Center for Telehealth Research and Policy at UTMB the only center in the nation devoted to demonstrating the efficacy of telehealth technology
- Among many "firsts":
 - o Faculty developed the most widely used screening tool for bipolar disorder worldwide and have adapted it for use in adolescents
 - o The first in the Southwest to obtain a daVinci Robotic Surgery system
- Centers of clinical excellence advance care by drawing upon knowledge generated in research enterprise:
 - o International leader in burns care
 - Forty-year partnership with first of three Shriners hospitals dedicated to pediatric burns resulted in advances such as pressure garments, nutritional support and pain management that are now-standard treatments worldwide for severely burned children; now investigating how knowledge of inflammation seen in burns could inform research on host of chronic conditions affecting Texans (including asthma, diabetes and aging)
 - Blocker Burn Unit for adults has one of the highest survival rates in the U.S. for patients with major burn injury
 - UTMB experts have trained more than 125 burn specialists now in practice and authored 80% of burn textbooks worldwide



o Women and children's health

- Includes 29-site Regional Maternal and Child Health Program, which serves nearly 110,000 women and children from 104 Texas counties
- Breast Imaging Center one of 13 throughout Texas to be designated a Center of Excellence by the American College of Radiology

o Diabetes, metabolism and obesity

- Stark Diabetes Center has more than 600 patient visits each month
- Cutting-edge research includes first published account of ability to transform umbilical cord stem cells into insulin-producing cells
- Center for Weight Management deemed one of only three Level 1A Centers of Excellence in Texas by the American College of Surgeons

o Diagnosis and treatment of solid tumors

o Transplant medicine

o Molecular cardiology

- Correctional Managed Care program has increased quality of care for state's inmate population while dramatically reducing state's costs through an integrated medical, dental and mental health care delivery system
 - o Begun in 1994 for TDCJ; 1996 for Texas Youth Commission
 - o Program ranks among the lowest-cost major adult prison health care systems in the nation (approximately \$8.65 per patient per day)
 - o The first prison health care system to utilize 340B Pharmacy Pricing
 - o Recognized as the national leader in the use of telemedicine within a correctional setting
 - o Developed one of the first and largest Electronic Medical Record deployed within a correctional health care system in the country
 - o Strictly adheres to evidence-based medicine and disease management guidelines



Service: A Living Legacy

- Frontera de Salud—Created by UTMB students in 1997; conducts rotations for students in impoverished Cameron Park *colonia* near Brownsville
- St. Vincent's House—A source of health care for indigent patients in Galveston; students work with faculty mentors to run clinic, provide hands-on care and arrange for needed prescriptions
- International rotations for medical students—Enables medical students to witness first-hand the barriers to care imposed by poverty; rotations take place around the globe
- Community Health pilot focuses on managing chronic diseases in unsponsored patients in Galveston, establishing a medical home, providing disease education, setting patient self-management goals, and directing patients to appropriate care settings
- 3-Share Program pilot currently providing health insurance to more than 400 Galveston County workers not previously covered; premiums are made affordable by cost-sharing among employee, employer, and UTMB philanthropic and institutional resources
- East Texas Area Health Education Center, headquartered at UTMB, seeks to improve health by recruiting people into health careers, supporting professional growth of existing health professionals, providing health education to promote healthy behaviors and maximizing local health resources: www.utmb.edu/chs/outreach/AHEC.html
 - o Serves 111 counties through nine regional operations
 - o Named top AHEC program by National AHEC Organization in 2008

