

2014



President's Report to Board of Regents



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Texas Tech University
Health Sciences Center

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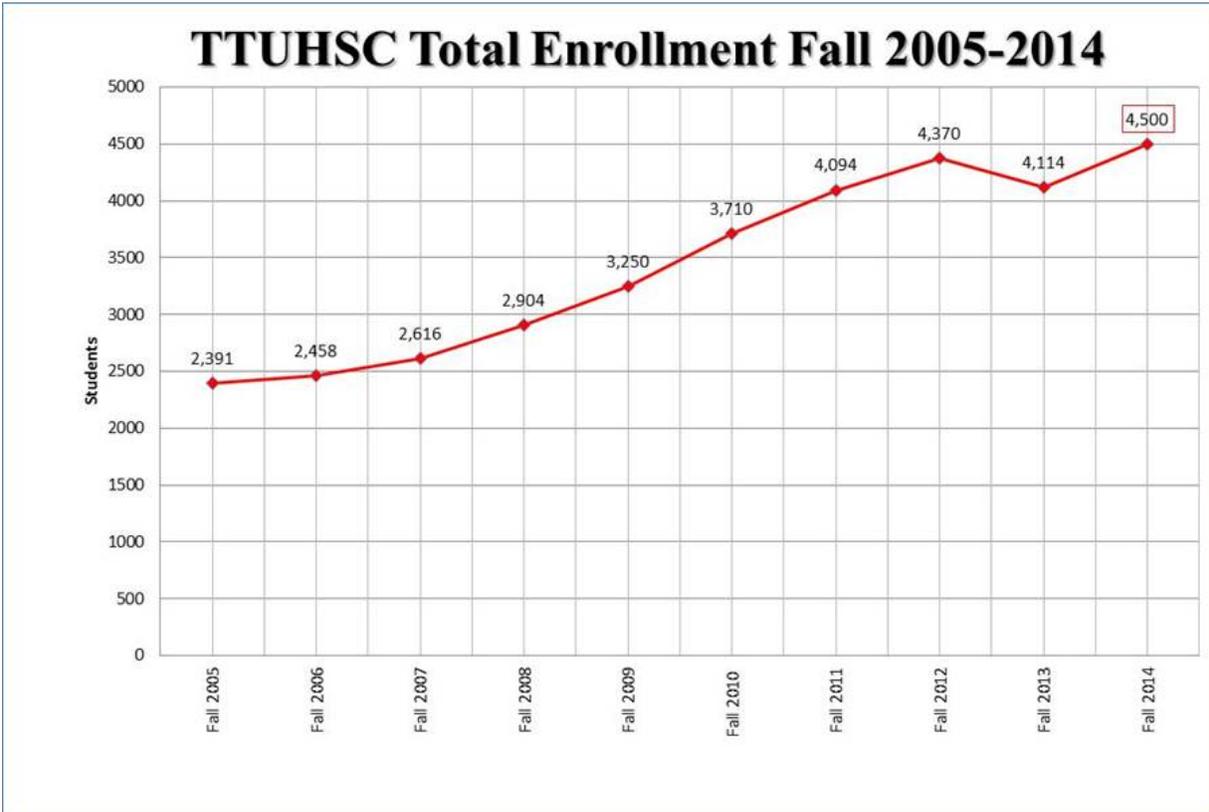
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TTUHSC News:

HSC sets enrollment record (even after loss of HSC-El Paso)



Enrollment Report TTUHSC Fall 2014	
School of Allied Health Sciences	1,471
Graduate School of Biomedical Sciences	181
School of Nursing	1,648
School of Medicine	629
School of Pharmacy	625
Total Enrollment	4,500

HSC sets graduation record (TTUHSC now leads the State of Texas in graduating health care professionals):

TTUHSC Graduates Academic Year 2014	
Fall 2013 Spring 2014 Summer 2014	
School of Nursing	979
School of Allied Health Sciences	465
School of Medicine	136
School of Pharmacy	158
Graduate School of Biomedical Sciences	30
Total Degrees	1,768

HSC total economic impact continues to increase:

TTUHSC Economic Impact Data (Bradley Ewing, Ph.D., Rawls College of Business, TTU, 2012)

Impact includes operations, payroll, research, student and visitor spending.

- Total economic impact of more than \$1.5 billion/year
- Sustains 13,241 Jobs
- Household income \$617 million/year

TTUHSC visit to Legislative Budget Board (September 30):

Legislative Priorities

- **Base Funding**
 - Formula Funding
 - Maintain Special Item Funding
- **Exceptional Item Requests**
- **Tuition Revenue Bonds**

Base Funding – Formula Funding

- **Fund growth in all formulas**
- **Restore rates to 2000-01 funding levels over the next two biennia**
 - **Instruction and Operations Support (I & O)**
 - Increase from \$9,527 to \$10,545 per student FTE
 - **Infrastructure**
 - Increase from \$6.63 to \$9.64 per square foot
 - **Research**
 - Increase from 1.22% to 2.26% of research expenditures

Exceptional Item Requests

- **Interprofessional Healthcare Education Initiative**

FY 2016 - \$1,800,000; FY 2017 - \$1,800,000

This initiative focuses on the integration of simulation-based experiences and interprofessional education to prepare graduates to work collaboratively with other healthcare professionals in order to improve patient care.

- **Concho Valley Area Health Education Center (AHEC)**

FY 2016 - \$250,000; FY 2017 - \$250,000

To establish a Concho Valley AHEC Center in San Angelo to adequately reach the population and encourage the growth of healthcare providers in the 17 county region.

- **Family Medicine Accelerated Track (FMAT)**

FY 2016 – \$725,000; FY 2017 - \$725,000

This request is to restore lost formula funding which results from the subsuming of the 4th year of the standard medical school curriculum under the 3 year accelerated FMAT curriculum.

Tuition Revenue Bonds

- **Lubbock Education, Research and Technology Expansion**

- \$83,700,000 (TRBs: \$75,330,000; other funds: \$8,370,000)

- To expand the current Lubbock HSC facility in support of institutional initiatives, program growth and academic changes.

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- **Permian Basin Academic Facility**

- \$19,800,000 (TRBs: \$17,820,000; other funds: \$1,980,000)

- To construct a 54,000 square foot facility to accommodate academic program expansion.

- **Amarillo Panhandle Clinical/Hospital Simulation Center**

- \$9,750,000 (TRBs: \$6,350,000; other funds: \$3,400,000)

- To construct and equip a 21,000 square foot simulation center

TTUHSC Veterans Welcome Governor Perry to Lubbock Campus

Student veterans present Texas Governor with TTUHSC military stole.

Will Moody, Veterans Coordinator for the Texas Tech Health Sciences Center and a Purple Heart Recipient, presented a TTUHSC military stole to Texas Governor Rick Perry on Wednesday to thank him for his support of veterans.

Moody, a native of Weatherford, Texas, was in the Army for five years and a military police officer in the 10th Mountain Division. He received his purple heart in Baghdad, Iraq when rocket propelled grenade struck his machine gun turret.

The governor also took time to meet with four veterans currently enrolled at TTUHSC and conversed with them about their military service and current fields of study.

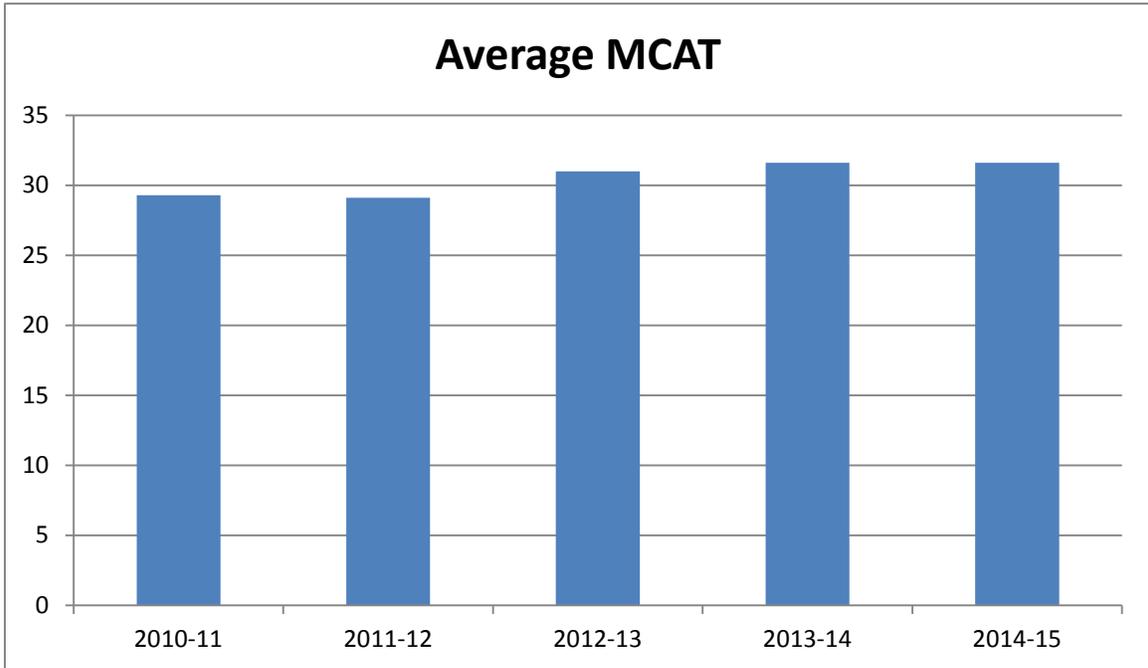
- Allison Coltisor of Rocklin, CA – 1st Year School of Allied Health Sciences
- Johnathan Heller of Lubbock, TX – 2nd Year School of Medicine
- Jeremy Landvater of Cibolo, TX – 2nd Year School of Medicine
- John Chauncey of Lubbock, TX – 3rd Year School of Medicine

“I think it was great that the veteran student population was included in the governor’s visit,” Moody said. “The students were enthusiastic about their opportunity to meet with Governor Perry.”

The TTUHSC Veterans Affairs Office works with students who have served in the military as well as spouses and dependents of veterans. Currently, there are approximately 140 TTUHSC students who are veterans.

School of Medicine News:

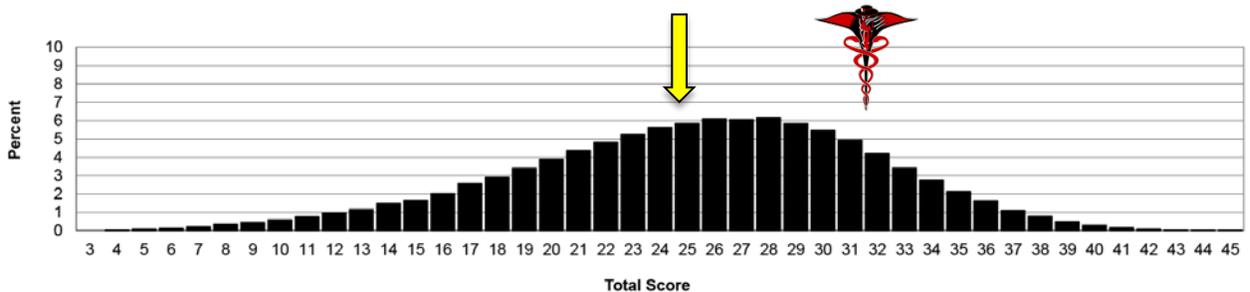
HSC SOM sets another record MCAT



Percentile Ranks for MCAT Total and Section Scores for Tests Administered in 2013

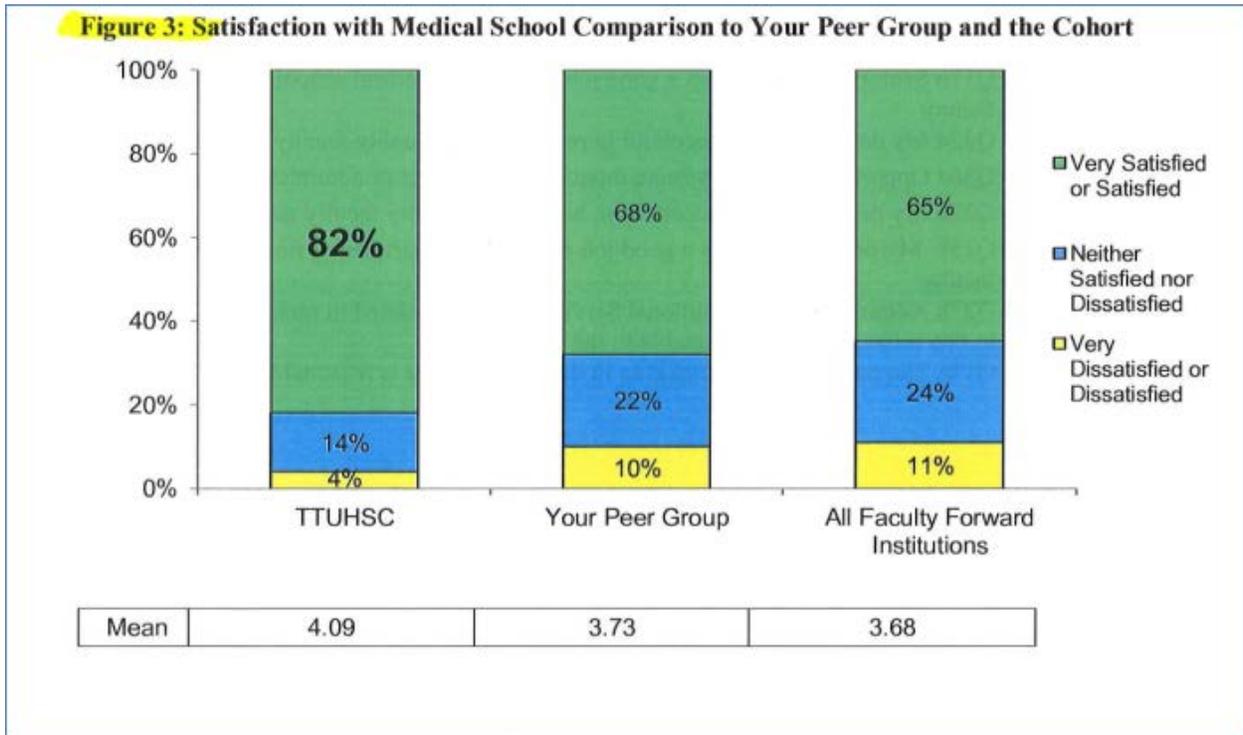
★ N = 94,907

Total Score



School of Medicine faculty members register high levels of satisfaction working at TTUHSC – Association of American Medical Colleges

AAMC *Faculty Forward* survey of medical schools from across the nation reveals TTUHSC SOM faculty to have much higher job satisfaction than their peers nationwide.



School of Nursing News:

Combest Center creates a healthier Lubbock community

During National Health Center Week, we're highlighting patients whose lives have been improved by the Combest Center.

Deborah Bratcher

Deborah Randolph Bratcher has been a Combest Center patient for 11 years. Bratcher was a teacher in Lubbock for 17 years until a series of chronic and debilitating illnesses forced her to stop working and she lost her health benefits.

"I had always been pretty healthy, but I had struggled since childhood with depression," Bratcher said. "In 2001 I was diagnosed with major depression, which changed my life quite a bit, and I had quite a bit of anxiety."

Bratcher said she ended up going to the hospital for a while. It was there she was assigned a caseworker that suggested Bratcher get a physical at the Combest Center.

Nurse practitioners discovered Bratcher had pre-diabetes and vertigo, a balance disorder that can cause dizziness, nausea and trouble standing or walking.

Since she has been receiving health care at the Combest Center, Bratcher said her life has improved dramatically.

"I don't think I would be here today if I didn't have access to the Combest Center," Bratcher said. "When I first came there, I was not very healthy and I was in a dangerous space, and they connected me to the people that helped save my life."

She added, "I know that my life would not be as comfortable and meaningful if they wouldn't have helped connect me to a group of people that helped my life balance out again."

Although Bratcher is not yet allowed by her doctor to get a part-time job, she said she keeps herself busy by doing volunteer work in the community and through her church. She has previously held offices with the Combest Community Alliance, and still attends board meetings and votes on measures to improve performance and civic engagement.

"I never knew a lot about not having access to health care until I was having trouble accessing it," Bratcher said. "I don't take it for granted anymore. I consider myself fortunate to have the health care I have now. I want to make sure everybody in Lubbock has access to quality health care."

Mary Garibay

Mary Garibay, of Lubbock, said she there was a time in her life where she was in so much pain that she didn't want to live anymore.

“My back pain and my sciatic nerve had caused so much pain on my right side, that it was just so painful I couldn't sleep at night,” Garibay said. “I tried over-the-counter stuff – nothing worked.”

But she said she believes it was an angel who guided her to call the staff at the Combest Center for help.

“I'm walking because of them,” Garibay said. “The doctor told me that I'd end up in a wheelchair. But I try to stay active and I try to help as much as I can – help my friends.”

Garibay said her favorite way to show her appreciation to the health care providers at the Combest Center is to use her love of baking to fix the staff all kinds of goodies including pumpkin bread and banana-nut bread.

“I try to give something in return,” Garibay said. “I feel so blessed and everyone has been so kind to me.”

Jeanette Nathan

When Jeanette Nathan moved back to the Hub City several years ago, she didn't have a place to go for health care.

At the time, she said she needed to pull together a health team that included a kidney specialist.

Although Nathan has since retired and lost her health insurance, she said she, like others in her situation, is fortunate to still have a medical home at the Combest Center.

“Most of the people who come here do not have health insurance either on their job, or they may have health insurance that's not very good on their job,” Nathan said. “This is a place where they can come get services on a sliding scale based on your income. And the services are comprehensive.”

Nathan said she enjoys being an active member of the Combest Community Alliance so that she can advocate to others about the ever-expanding number of programs available at the Combest Center.

“I'm always interested in trying to find out ways that I can help as one person in one effort to make sure that the community health centers in this area stay viable and sustainable,” Nathan said.

Research News:

Changing certain bacteria in gut material may help treat inflammatory bowel disease (IBD) (9/23/2014)

A local researcher said he's working on a way to identify the bacteria in an effort to lead to a cure for IBD.

Matthew Grisham, professor and chair of the department of immunology and molecular microbiology of the Texas Tech Health Sciences Center, has studied the disease for more than 20 years.

The overall increase of hygiene awareness over the past 50 years has altered bacterial communities within the gut, he said.

"The disturbance in the gut bacteria, people believe now, are driving dramatic and increased incidence in all of these chronic inflammatory diseases in genetically susceptible individuals," he said.

Incidence rates of diseases such as rheumatoid arthritis, lupus, diabetes and IBD, autoimmune and chronically inflammatory diseases have increased, Grisham said.

"Up until a few years ago, no one really knew why because the genetics of individuals that are susceptible to these diseases haven't changed at all," he said. "What we believe is happening is over the last 50 or 60 years, we've done a really good job of sanitizing our environment. ...Personal hygiene has increased."

Grisham believes the answer lies in genetic composition.

"So not everybody is going to get lupus or diabetes, but if you just happen to have a genetic predisposition and you have this alteration in your gut bacteria, there appears to be a very high chance that you're going to develop disease."

Experiments have proven the link between genetics and gut material, Grisham said.

So it's the transfer of bacteria that's telling us there's something about the altered bacteria composition that plays a major role in genetically susceptible individuals that could go on and develop the disease, he said.

It's the composition of the gut material that has Grisham's interest piqued and is the basis of his research, he said.

Mark Lyte, professor in the department of immunotherapeutic and biotechnology in the School of Pharmacy at TTUHSC in Abilene, said Grisham's work will contribute to finding new disease treatment strategies for IBD.

“If you could identify the good and the bad players, you can help drive competition to all the good players,” Lyte said. “...What Dr. Grisham is doing is going to be critical in identifying new strategies to treat these diseases.”

Grisham’s focus is on inflammatory bowel disease, he said.

“These are chronic and inflammatory diseases of the small and large intestine,” Grisham said. “It is well-known that patients that suffer (from) these diseases have a market change in bacterial populations compared to a healthy individual. That’s pretty much the goal of my research and that’s to determine what causes that change and what are the major bacterial groups that are changed and what are the major increase and decrease and how does that drive the induction of inflammatory bowel disease.”

When fecal material from animals with IBD is extracted and implanted in healthy animals, only the ones genetically susceptible will get it, he said.

Lyte said antibiotics are not 100 percent effective.

“You kind of replace what the person was lacking with the microbiota from the person that’s a donor,” he said.”

Grisham said his lab has partnered with another Tech researcher to use a genetic sequencer to find out what bacteria is in the fecal material of the infected animals.

By identifying the bacteria, Grisham hopes his research can eventually contribute to a cure of IBD and a better understanding of autoimmune diseases.

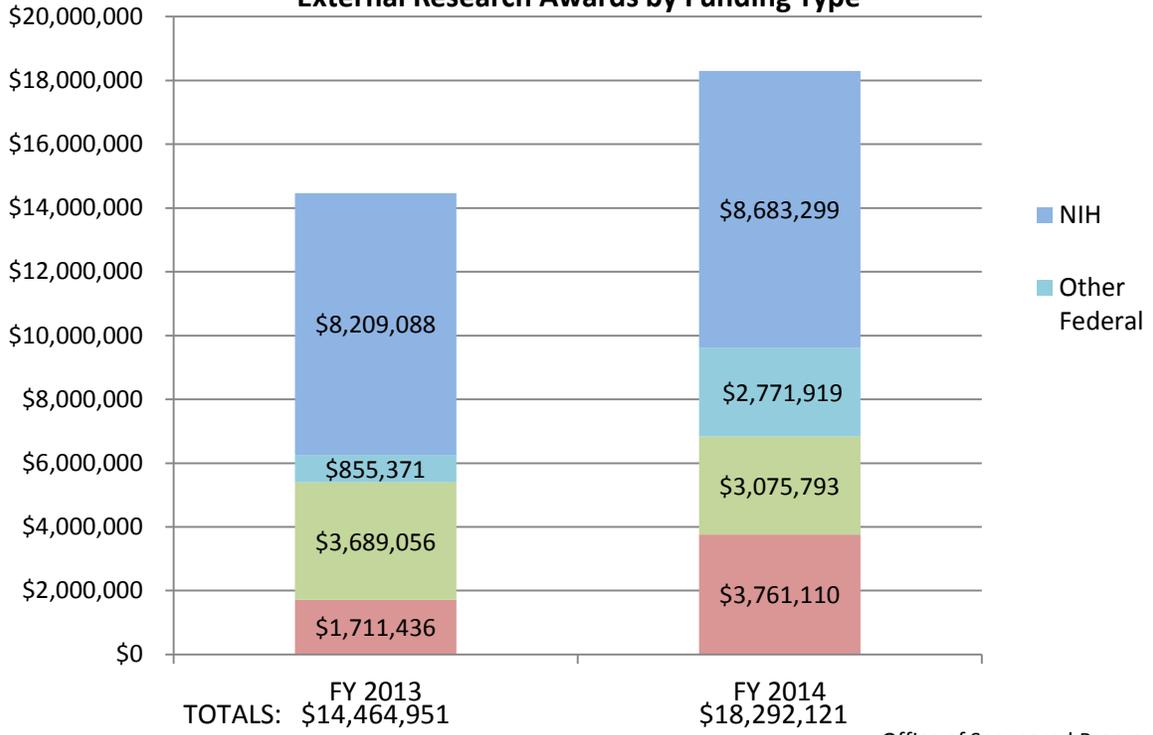
TTUHSC Senior Vice President for Research works to ensure consistent procedures and protocols for all faculty involved in research and to develop resources for future growth and success

HSC Office of Research has compiled a listing of 22 pharmaceutical companies and their therapeutic areas of interest to provide a resource for our researchers to seeking funding for projects.

HSC Office of Research has put together courses for our researchers and post-docs on ethics in research, compliance for DEA, publishing fraud, and assessment of conflicts of interest.

HSC Office of Research is working with the TTU Office of Research to develop a proposal for hosting a scientific meeting of The Academy of Medicine, Engineering and Science of Texas (TAMEST) in 2016.

**Texas Tech University Health Sciences Center
External Research Awards by Funding Type**



Office of Sponsored Programs

School of Pharmacy News:

Mommy Meds makes national news - There's a New App for Breastfeeding Mothers on Medication

WDTV News Channel 5 (West Virginia) - 10/2/14

There have been several studies over the years saying breastfeeding has many health benefits for your baby, but some mothers stop breastfeeding, or are told to stop, because they have to take certain medications.

Now there's a new app that let's new mothers know which medicines they can take and still safely breastfeed their child. It's called MommyMeds, and it was developed by doctors at the Infant Risk Center at TTUHSC (Dr. Thomas Hale, Schools of Pharmacy and Medicine).

MommyMeds costs \$1.99 at the app store and includes safety ratings for 20,000 medications and chemicals, a bar code scanner, and general information on medication safety in pregnancy. Apparently, many common medications can still be taken during nursing.

SOP joins with TTU Honors College in articulation agreements

A series of proposed agreements between the SOP and TTU Honors College have been passed by SOP faculty, clearing the way for advanced admission into TTUHSC SOP for TTU Honors College students.

F. Marie Hall Institute for Rural and Community Health News:

WITR Project results presented to Governor Perry at TTUHSC



**Telemedicine, Wellness,
Intervention, Triage and
Referral**



TEXAS TECH UNIVERSITY
HEALTH SCIENCES CENTER.

F. Marie Hall Institute for
Rural and Community Health

The primary purpose is to provide screening, assessment and referral services to students in rural areas who are judged to be immediate threats to do harm to themselves or others.

The secondary objectives are three fold:

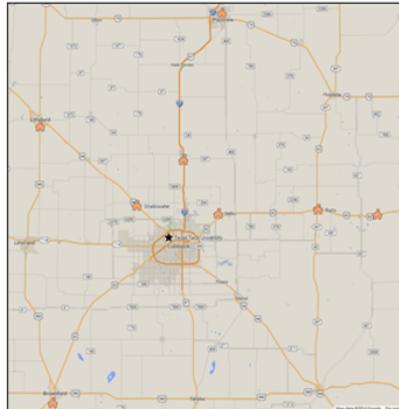
1. To demonstrate that school-based screening, assessment, and referral services can be provided to students who are typically struggling with behavioral and mental health issues.
2. To demonstrate that Telemedicine Technology can be used to link remote rural schools without sufficient counselors to Psychiatry and Mental Health Service Providers in an efficient manner.
3. To provide mental health recognition and training services to educators and school resource officers to promote greater recognition and prompt referral.



TWITR Outcomes



- Number of School Staff Trained = ~1250
- Number of students impacted = ~8175
- Number of referrals = 258
- Number screened = 75
- Number triaged = 61 (all by telemedicine)
- Number removed from school = 14
- Other outcomes = reduction in truancy (17%), reduction in student discipline referrals (25%), increase in student overall GPA (3.6%)
- Consortia have formed – hiring TWITR staff



2

International Programs News:



International Programs Week

The Office of Global Health commemorates International Programs Week October 3-10, dedicated to raising awareness of the global health initiatives conducted by TTUHSC.

Friday, October 3

Beyond Borders, Beyond Measure Photography Exhibit

Tuesday, October 7

International Programs Fair (*Students only!*)

Wednesday, October 8

Global Health Lecture Series featuring Mike Russell, SOM, Class of 2017 -
The Israel/Palestine Experience

Thursday, October 9

Global Perspectives Film Series: *A Doctor of My Own*

Friday, October 10

Global Health Lecture Series featuring Patti Patterson, MD
TTUHSC initiatives in Jinotega, Nicaragua



Volcano Baptism, Nicaragua, Erica Scott, SOM



Hard Work, Selen Gunduz, SOAHS



Wait!, Chelsea Hollis, PLFSOM



Hearing a Heartbeat, Erica Scott, SOM