

CELEBRATING

10  
YEARS  
OF SERVICE

F. Marie Hall  
Institute for  
Rural and  
Community  
Health

—  
2019 Annual  
Report



TEXAS TECH UNIVERSITY  
HEALTH SCIENCES CENTER



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## F. Marie Hall Institute for Rural and Community Health

### MISSION & VISION

The F. Marie Hall Institute for Rural and Community Health exists to work in close collaboration with the people of West Texas for the advancement of health through innovative and scholarly research, the advanced use of technology, comprehensive education and community outreach.



We thank you for allowing us to spend our time with purpose and to strive each and every day to make the world a better place.



F. MARIE HALL

**MOTTO:** We focus our imagination, our talents and our energy to improve the health and well-being of the people and communities of West Texas and beyond.

# Letter from the Director



DR. BILLY U. PHILLIPS, JR.

This has been a banner year for the F. Marie Hall Institute. While stressful for many of us, we completed our ten-year Sunset Review. That is the process by which—through internal and external peer review—all Institutes are determined to be on mission and essential enough to continue another ten years. It is a process that requires considerable documentation, and is much like accreditation reviews for academic programs. We are very proud of the fact that the F. Marie Hall Institute has been acknowledged for its many contributions across many schools and programs and to the health and wellbeing of those we serve in West Texas and beyond. So we are in business for another ten years. Many thanks are due to Cathy Hudson and her team for leading our internal efforts, and much appreciation is due to our external advisory council. We were rated exemplary in the comments.

“TWITR is the program that shined a spotlight so bright in the last legislative session that it allowed us to showcase many other important programs of the Texas Tech University Health Sciences Center.” These

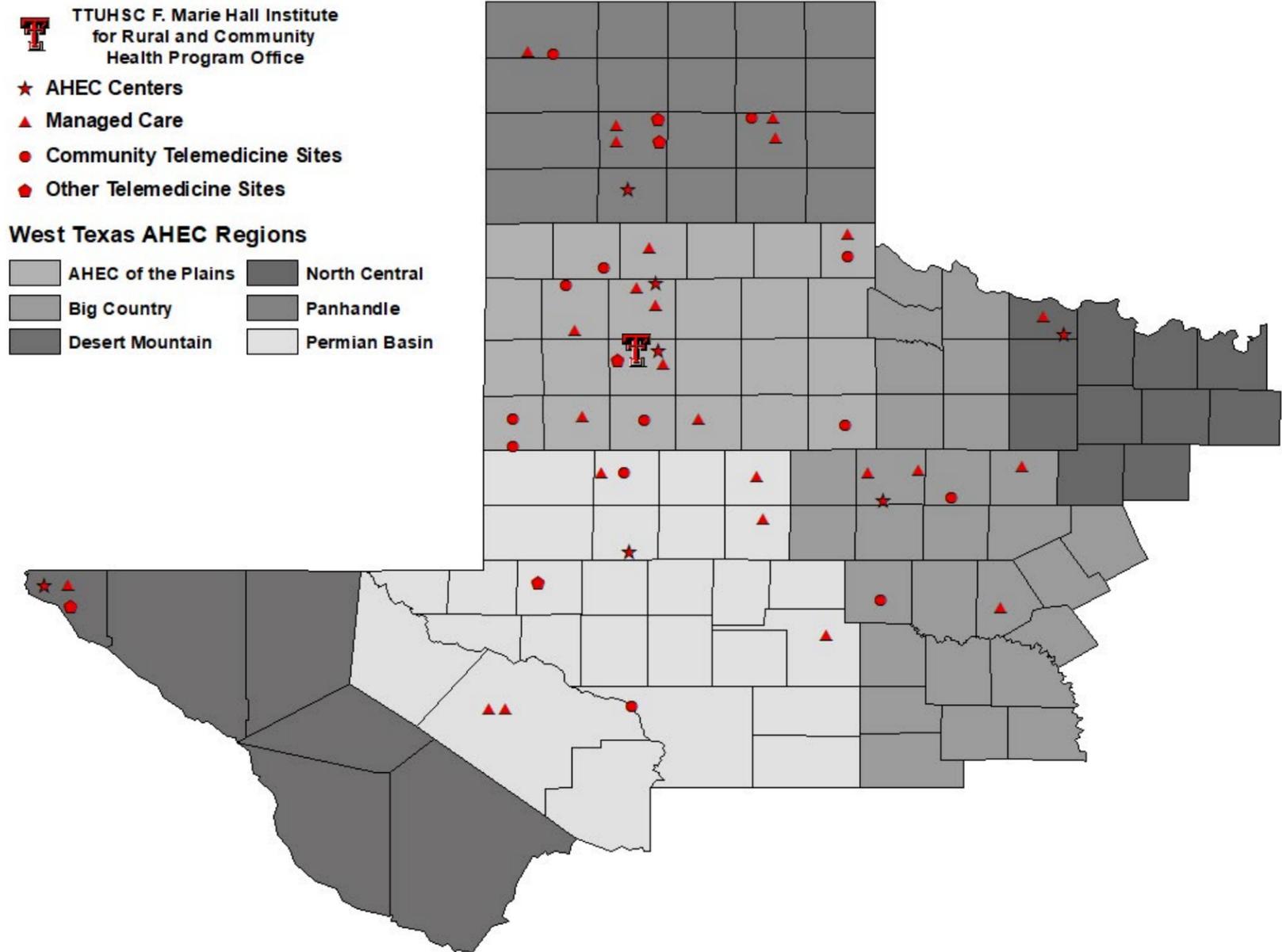
were in the remarks of President/ Chancellor Tedd Mitchell on October 14, 2019 in the Strategic Planning Retreat. The Telemedicine Wellness Intervention Triage and Referral Project (TWITR) has consumed the Institute and its staff over the past two years and is now standing up a new program that is a hybrid of the legacy program and a new approach using the ECHO (Enhancement of Community Health Outcomes), which is a guided practice and development model that offers the possibility to make this effort scalable for much wider distribution and replication. The new program is called CATR (The Campus Alliance for Telehealth Resources) and will transition to the Texas Tech Mental Health Initiative and move under the auspices of the Department of Psychiatry in the School of Medicine. This \$5 million appropriation to support CATR is a tribute to the substantial and excellent work led by the Institute over these past years.

I encourage you to read about all of the other important contributions we have made to the health and wellbeing of the people of West Texas in 2019. The Institute has never been busier, more viable, more involved, or more impactful. Yet as the previous chair of our external advisory committee commented, it would appear until recently the Institute was the best kept secret at Texas Tech University Health Sciences Center. Well, that impression is to a degree true in

that most of our staff is housed at remote campus locations, and some of those are in areas hundreds of miles away. That’s important because that is what we do. We relate to our service area and the people that live there and often they are us. Yet, in another way, the statement is not altogether true when you consider all the places in the TTUHSC strategic plan that Rural and Community Health Initiatives are chronicled among important goals, mostly under Service. That is our purpose. To serve.

This year many of us have turned a corner in living out our values. We have recognized and celebrated those among us who have shown One Team, Kindheartedness, Integrity, Visionary, and Beyond Service. We strive daily to operationalize our coaching of one another to be even better in our behavior under each value. Some of us are approaching milestone professional certifications in the field. The reasons are simple, we believe we are better because of our values.

I am very grateful to have led the F. Marie Hall Institute now a bit over ten years. The next couple of years we will strive to accomplish a new version of ourselves, complete a process of succession planning, and grow beyond what our wildest imaginations might suggest. I know because I believe in our people, our purpose and our institution.



# Serving West Texas

Why is it so crucial for the state to be concerned with health care across this rural and remote half of the state? The answer lies within the vast resources that West Texas contributes and the people who make it all possible.

West Texas plays a significant role in the daily lives of most Americans as a primary source of food, fuel, and fiber. West Texas is home to major beef and pork produc-

tion, including some of the world's largest cattle feedlots. We have some of the top producing oil and gas fields in the nation as well, and the region also serves as a prominent source of agriculture for the country.

The Texas Tech University Health Sciences Center is centered in the midst of this perfect rural research environment and is uniquely situated to lead efforts that go beyond statistics to create real-world rural health solutions.

## OUR FOCUS

1

### HEALTH TECHNOLOGY

Telemedicine and telehealth training, health IT support, practice management, clinical quality coaching and network improvement support.

2

### HEALTH EDUCATION

Coordination of pipeline activities to recruit and engage students to enter the health care workforce and practice in rural West Texas.

3

### BEHAVIORAL HEALTH

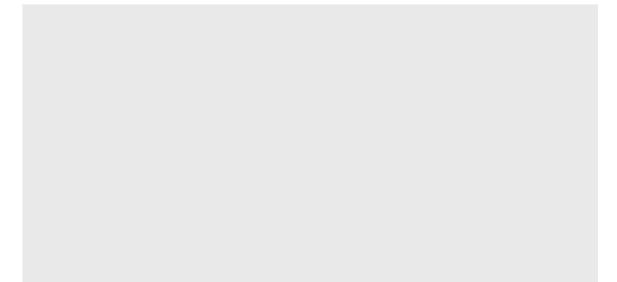
Behavioral health counseling, triage, intervention and referral for West Texas public school students via LPCs and telemedicine.



## Administration Staff



ADMINISTRATION STAFF (LEFT TO RIGHT): Miguel Carrasco, IT Support Technician; Sarah Looten, Director of Staff Relations; Tamara Lawrence, Admin Assistant, Denise Lopez, Director of Finance; Kelly Munoz, Project Manager; Cameron Onks, Attorney; Dolores Parrish, Assistant for Staff Relations.



## Innovations in Healthcare Technology (InHT)

InHT assists healthcare providers and hospitals in modernizing their organizations with the use of certified electronic health records (EHRs) and telehealth technology. Because of its work in assisting providers and hospitals in implementing certified EHRs, InHT continues to be recognized as experts in the field and are called upon to provide technical support and health care expertise to individuals across the region.

Currently, of the 108 counties in the TTUHSC service region, 20 have no practicing physician and 11 have no physician, nurse practitioner, or physician's assistant. Outside the seven urban centers – Lubbock, Amarillo, Midland/Odessa, El Paso, Wichita Falls, San Angelo, and Abilene – there are few, if any, specialty providers, resulting in many patients having to travel to seek medical care. InHT addresses these access barriers related to distance through its Telemedicine department, yielding better quality patient care that meets the local needs of rural and urban communities that are great distances from specialists and other kinds of providers. Telemedicine has expanding innovations in several areas including: Rural Telemedicine; Correctional Telemedicine; Mental Health Services; HIV Services in Abilene; EMS Trauma Point of Care Telemedicine Services; Telehealth Resource Center servicing Texas and Louisiana Telemedicine Services; and our state of the art Frontiers in Telemedicine Training Laboratory.

An additional component of InHT's work is the Telemedicine Wellness, Intervention, Triage and Referral (TWITR) Project. The TWITR Project is a unique demonstration project developed in 2013 that was created to help bridge a gap in mental health services in West Texas. TWITR, an initiative funded by the State of Texas Office of the Governor's Criminal Justice Department, promotes school safety by providing psychiatric assessment and referral services to students struggling with behavioral and mental health issues who are imminently dangerous to themselves or others. The TWITR Project currently covers a geographic area within Lubbock County and into the surrounding counties of Hale, Lamb, Hockley, Terry, Lynn, Garza, Crosby, and Floyd.

## InHT Staff



InHT STAFF (LEFT TO RIGHT): Jimmy Ashley, Tech Manager; Traci Carroll, Frontiers In Technology Project Manager; Melanie Clevenger, Telemedicine Clinic Manager; Becky Jones, TexLa Program Manager; Laura Lappe, Telemedicine Project Manager; ; Nandini Ramanathan, Telemedicine Support; Sharon Rose, EMS Project Manager; Lisa Wynn, Administrative Assistant.





## Telemedicine in West Texas

The Texas Tech University Health Sciences Center (TTUHSC) Telemedicine Program continues to bridge access barriers across West Texas.

The TTUHSC Telemedicine Program provides patient services including rural health clinic-based specialty care, school-based clinic primary care, correctional telemedicine, and mental health services, including a school-based triage and referral project and an HIV+ clinic for uninsured and underserved patients.

Telemedicine encounters for FY 2018-19 included the following:

- **1,360** Total Patient Encounters

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- **537** Correctional Patient Encounters

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- **823** Community Patient Encounters

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- **177** Infectious Disease Clinic Patient Encounters

The telemedicine program at Texas Tech University Health Sciences Center has been recognized nationally through several distinctions and honors.

in FY 2018-19, Telemedicine also provided practical training opportunities to TTUHSC students and residents to better prepare them for future use of such technologies.

Looking ahead, the TTUHSC Telemedicine program will continue to create awareness of telemedicine programs and the use of technology in medical practice among local physicians, administrators, and health service providers, as well as in surrounding areas. Awareness includes the advancements of telemedicine and other technologies, improvements in reliability, simplicity of equipment/software use and the potential that exists to expand telemedicine to West Texas communities and beyond, seeking help to overcome barriers to care and increase access to health services.

## Telemedicine, Wellness, Intervention, Triage and Referral (TWITR) & CATR



The Telemedicine Wellness Intervention Triage and Referral (TWITR) Project began in 2013 in order to develop and test a model to provide mental health services to rural school districts with limited mental health resources. The TWITR Project used Licensed Professional Counselors to screen at-risk students referred by the schools and used telemedicine technology to link those students who required additional screening and/or treatment to a Board Certified Child and Adolescent Psychiatrist who provided oversight for each student that warranted medical care referrals, especially those cases that involved medication management. Grant funded by the Office of the Governor of the State of Texas, Criminal Justice Division, Juvenile Justice Delinquency Prevention Program, the TWITR Project operated throughout West Texas for more than five years, growing from ten school districts with approximately 30,000 students enrolled to twenty four independent school districts with more than 100,000 students enrolled.

In 2019, due to the success of the program and the growing acknowledgement of the need for mental

health services such as the TWITR Project in Texas's independent school districts, the 86th Texas Legislature appropriated \$5 million dollars to Texas Tech University Health Sciences Center in order to grow and expand the TWITR Project. Effective September 1, 2019, the TWITR Project has been rebranded and renamed. Moving forward, the TWITR Project will do business as the "Campus Alliance for Telehealth Resources" or "CATR" Program. The program has been renamed and rebranded in order to better represent the expanded services it will offer.

Beginning in the 2019 – 2020 school year, the CATR Program will offer CATR Extensions for Community Healthcare Outcomes ("ECHO") Services. CATR ECHO Services are designed to connect independent school districts with behavioral health specialists at centers of excellence in regular real-time collaborative sessions. The sessions, designed around case-based learning and mentorship, help ISD staff gain the expertise required to provide needed behavioral health services for their students. As the capacity of the school based mental health workforce increases, lives improve and the model becomes a hybrid of TWITR,

the legacy model and incorporates the proven ECHO approach. TTUHSC will continue to serve the mental health needs of schools through CATR while making the program much more scalable for wider distribution and replication.

TTUHSC is excited to begin this latest chapter in its service to Texas's independent school districts, communities, and the school children throughout the State.

**TWITR/CATR covers 13 counties and 25 school districts.**

**Lubbock region includes: Hale (2), Terry (1), Lubbock (8), Crosby (2), Hockley (1), Callahan (1), Lynn (1)**

**Amarillo Region includes: Potter (2), Randall (1), Moore (1), Deaf Smith (1), Swisher (2), Hutchinson (2)**

## TWITR/CATR Staff



TWITR/CATR STAFF (LEFT, TOP TO BOTTOM): Bonnie Cantu, Senior Mental Health Clinician; Ron Martin, Senior Mental Health Clinician; Shawn Marie Parrott, Senior Mental Health Clinician.



CATR STAFF (RIGHT, TOP TO BOTTOM): Anthony Brister, Mental Health Clinician; Amy McWhorter, Senior Mental Health Clinician; Maxine Westmoreland, Senior Mental Health Clinician

## Frontiers in Telemedicine (FIT)

The Frontiers in Telemedicine Course was launched in In 2016 as a unique program to train clinical staff about telemedicine. Today, students complete hands-on simulation center training, online modules, and objective structured clinical examinations (OSCEs) designed to educate them on telemedicine equipment, procedures, etiquette and ethics. The program also trains licensed health care professionals who desire to be gain a certificate of completion in telemedicine.

After completion of training, students should be able to:

- Demonstrate the basic knowledge of telemedicine and telehealth and define those who could benefit from this technology.
- Demonstrate knowledge of the originating/patient site and distant/provider site, as well as the clinician and staff roles at each one.
- Demonstrate knowledge of the operation of telemedicine technology.
- Demonstrate knowledge of a telemedicine encounter.
- Demonstrate the basic ability to assess a patient in the ambulatory telemedicine setting.
- Demonstrate the utilization of knowledge required to present and manage the patient with a specific problem.
- Demonstrate the application of communication skills in patient and medical team communication.



## FIT Certificate Course

The Frontiers in Telemedicine Certificate Course is a unique program that trains clinical staff about telemedicine, including clinical encounters, telemedicine technology, etiquette and ethics, and telemedicine billing.

- A total of 68 providers were trained in the FIT lab in FY 2018-2019.
- New curriculum was created to train students from the School of Health Professionals Physician Assistant program.
- 2018 Online Course: Telemedicine Training for Clinical Counseling
- The FIT Lab teaches students in a hybrid format, with online modules, live lectures, and hands-on demonstrations and practice.
- Student competency is tested through the use of Objective Structured Clinical Examinations (OSCEs) using standardized patients.

### TRAINING CLINICAL STAFF



From February 1, 2016, the FIT Lab has trained 298 professionals in Emergency Medicine, Dermatology, Psychiatry, Pediatrics, Internal Medicine, and various Public Health specialties, including department chairs from multiple campuses of TTUHSC.

# TexLa Telemedicine Resource Center

The TexLa Telehealth Resource Center is a federally funded program designed to provide technical assistance and resources to new and existing telehealth programs throughout Texas and Louisiana. Nationally, there are a total of 14 TRCs which include 12 regional centers, all with different strengths and regional expertise, and two national centers, one focusing on technology assessment and one on telehealth policy. The TexLa TRC works to eliminate barriers and supports the expansion of telehealth throughout the region.

## TECHNICAL ASSISTANCE



**386**

CLIENTS ASSISTED IN FY 2018-19

The TRC provides technical assistance to advance telehealth across Texas and Louisiana. Technical assistance describes the information, tools and resources provided addressing such telehealth topics as technology, policy and reimbursement.

## OUTREACH AND EDUCATION



**64K**

OUTREACH CONTACTS IN FY 2018-19

The TexLa Telehealth Resource Center reached 64,011 individuals in FY 2018-19 by outreach and education through speaking engagements, workshops, conference exhibits and booths, websites and social media.



# Next Generation 911 Project



## PILOT PROJECT

Created and funded by Texas House Bill 479, the Texas Commission on State Emergency Communications and TTUHSC were asked to establish a pilot project which would place tele-medicine equipment in Emergency Medical Service (EMS) units. We plan to implement additional ambulances next year. Other goals of the project include improving care communications and proving cost savings by directing patients to more appropriate treatment facilities without screening in hospital emergency departments.



## FY 2018-2019

The Next Generation 911 project continues to monitor and collect data from 5 rural EMS providers and their community hospitals: Scurry County EMS and Cogdell Memorial Hospital, Medical Arts Hospital EMS and Medical Arts Hospital, Seminole EMS and Seminole Hospital District, Bailey County EMS and Muleshoe Area Medical Center, and Granbury/Hood County EMS and Lake Granbury Medical Center. The project has implemented 3 Regional Trauma Centers: University Medical Center, Covenant Health System Adult ED and Pediatric ED.



# Transforming Communities through Outreach, Recruitment & Education (T-CORE)

Education and outreach, youth recruitment and counseling, and community health worker training

The T-CORE division of the Institute encompasses the community outreach arm of TTUHSC programming. In addition to West Texas AHEC — a program that works to reduce health service disparities, health care provider shortages, and barriers to health care access — programs under T-CORE include the Community Health Worker Development—Bridge to Excellence Program, the Behavioral Health Workforce Education and Training Program, AHEC Scholars, AHEC Jr. Scholars and the Double T Collegiate Health Service Corps.



DEBRA FLORES, PhD, MA  
EXECUTIVE DIRECTOR OF  
T-CORE



## T-CORE Staff



T-CORE STAFF (TOP TO BOTTOM, LEFT TO RIGHT): Jeff Carr, Program Manager; Adrienne Harrell, Program Manager; Celeste Hoffman, AHEC Data Coordinator; Estela Salazar, BHWET Coordinator; Frances Quintero, AHEC Projects Coordinator and Double T Health Service Corps Advisor.

# West Texas AHEC



Area Health Education Centers

The West Texas AHEC program has six regional offices—Canyon, Plainview, Midland, Abilene, El Paso, and Wichita Falls. Goals for the West Texas AHEC program include coordination of pipeline activities to recruit and engage students to enter the health care workforce.

Additionally, the West Texas AHEC Program expands community-based opportunities to increase health professions training capacity, provides community-based clinical training for health professions students through the new AHEC Scholars Program, provides practice entry support, introduces youth to health careers through AHEC Jr Scholars programs, and supports placement and retention of health professionals in high need areas.



West Texas AHEC was successful in addressing the health care provider shortage and underrepresented populations in health careers programs as they placed 425 students in rotations, initiated 25 new youth health service corps (also known as AHEC Jr. Scholar programs) provided health career pipeline education to a total of 9,991 students and supported two Double T collegiate students groups in FY 2018-19.

### AHEC Jr. Scholars

West Texas AHEC implemented an AHEC Jr Scholar program targeted at rural schools in an effort to recruit students at the high school level. The goal is to target student who already know they want to pursue a career in health care regardless of the field of study. Each year each center is charged with recruiting new schools to participate in this program. To date, the centers have recruited 50 schools for a total of 1,171 active participants. This targeted approach yields a greater impact due to the ability to provide resources such as shadowing opportunities, tours of the different health career programs and a curriculum targeted for future health care professionals.

This program was implemented on September 1, 2018 and the goal was to recruit 102 students among the six centers, 156 students were recruited. An additional goal was to have 90 students complete the first year of the program and 99 students completed. Below is a list of targeted health care professions and the number of students who participated in the Scholars program in year one (FY 18-19):



West Texas AHEC's accomplishments for FY 2018-19 included:

- WTAHEC supported a total of 3,564 health professionals via an annual conference and other hosted continuing education and professional development events where health care professionals are able to obtain their required continuing education credits.
- West Texas AHECs Bridge to Excellence CHW Program provided certification training for 34 new CHWs, 30 of which were on the (BHWET) behavioral health track. The online CEU was extremely successful with a total of 187 participants.
- 156 students were recruited for the the AHEC Scholars program, implemented on September 1, 2018.
- Exceeded the stated target of placing 425 students in rotations

- BSN Scholars (2)
- CHW Scholars (3)
- Counseling Scholars (2)
- DO/Medicine Scholars (6)
- Kinesiology Scholars (1)
- LVN Scholars (12)
- NP Scholars (2)
- OT Scholars (3)
- OTA Scholars (3)
- PA Scholars (15)
- Pharmacy Scholars (3)
- Public Health Scholars (6)
- Rehab Counseling Scholars (1)
- RN Scholars (10)
- SLP Scholars (28)
- Social Work Scholars (2)

#### Student Rotations

Rotations were facilitated for 425 health care profession students in our West Texas AHEC region, including rotations for:

- Medical School (295)
- Physician Assistant (75)
- Speech Pathology (42)
- Public Health (5)
- Other (8)

#### Rural Provider Shortage Symposium

After a conference last year, hospital administrators approached AHEC requesting strategies to recruit providers to rural communities. Based on this request, four of the six West Texas AHEC centers hosted a Rural Provider Shortage Symposium. The goal

of the symposium was to identify effective strategies for provider recruitment to rural communities. Rural Hospital Administrators, rural providers already working in rural hospitals, medical, nursing and physician assistant school administrators and students (MD, NP and PA) were invited to participate. New and proven recruitment strategies were identified and will be shared with rural health care administrators in the future.

#### Double T Collegiate Youth Health Service Corp.

The following Collegiate Double T honor society members competed and placed in the March National HOSA competition in May 2019.

- Community Awareness - 2nd Place: Diana Padilla and Priscilla Padilla
- Creative Problem Solving - 3rd Place: Sara Zareei, Sanaz, Zareei, Luisa Dominguez and Karina Damian
- Medical Assisting - 1st Place: Jerricho Tipo
- Medical Math - 1st Place: Ryan Floresca
- Pathophysiology - 1st Place: Raul Gomez
- Job Seeking Skills - 3rd Place: Eric Guzman
- Biomedical Debate - 1st Place: Maria Uribe, Diana Moreno and Adriana Marquez
- Health Career Photography - 2nd Place: Danielle Narimissaei

#### Veterans Conference in El Paso

Desert Mountain AHEC teamed up with TTUHSC School of Nursing Lubbock to host and facilitate a veterans health conference. This conference raised awareness about the different health care needs veterans face.

#### Physician Assistant Boot Camp

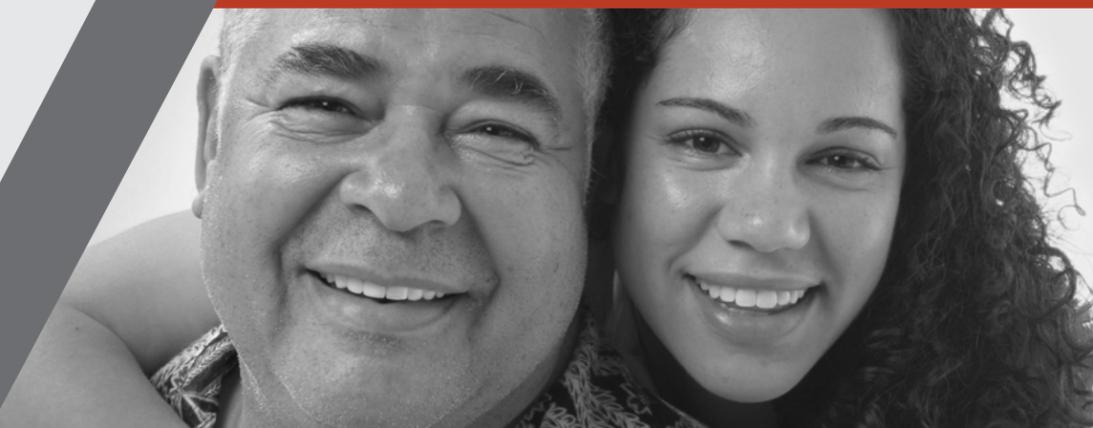
In June, the annual PA Bootcamp was held at the TTUHSC PA School in Midland. All five West Texas AHEC Centers were present. Students were able to meet their respective AHEC representatives to assist them during their clinical rotations.

## Bridge to Excellence

The Bridge to Excellence program provided certification training for 34 new CHWs in FY 2018-19, 30 of which were on the BHWET behavioral health track.

The Bridge to Excellence Community Health Worker (CHW) program is a hybrid class consisting of traditional face-to-face classroom in Lubbock coupled with virtual connectivity through telemedicine.

The continuing education offerings were moved this year to an online platform in an effort to reach CHWs unable to commute to an urban location for their required continuing education hours. The online CEU was extremely successful with a total of 187 participants.



## CHW Graduate Academy



This fiscal year, WTAHEC received supplemental funding from HRSA to provide education in the community about opioid use. Each of the centers hosted a CHW Graduate Academy in their designated region. West Texas AHEC partnered with Texas Overdose Naloxone Initiative (TONI) who provided the opioid expertise. This one-day event provided community health workers with 8 hours of continuing education. The combination of events throughout West Texas garnered 531 participants.

## Research, Reporting & Data Management (R<sup>2</sup>DM)



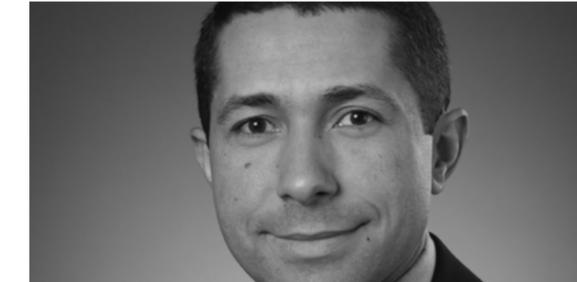
Research, data collection,  
contract and grant assistance,  
report preparation and other  
communications

R<sup>2</sup>DM is a resource within the Institute which supports endeavors throughout the Texas Tech University System as well as the communities within the TTUHSC service area. The R<sup>2</sup>DM supports academic and community-based endeavors by providing information through geomapping and analysis, needs assessments, gathering data for and helping process grant applications, and developing reports, maps and other publications for TTUHSC and Institute special projects. In addition to developing media material and enhancing the Institutes social media presence, R<sup>2</sup>DM produces the Rural Health Quarterly magazine which is available both in print and digital format ([www.RHQ.com](http://www.RHQ.com)).



CATHERINE HUDSON, MPH  
DIRECTOR FOR RURAL HEALTH  
RESEARCH

## R<sup>2</sup>DM Staff



R2DM STAFF (TOP TO BOTTOM, LEFT TO RIGHT): Luciano Vilas Boas, Section Supervisor; Debra Curti, Research Associate; Gordon Gong, Senior Director of Study Design and Biostatistical Analysis; Rhonda Isome, Administrative Assistant; Scott Phillips, Senior Editor.

## Grant Applications and Awards

The Institute has six active grants and was successful at submitting four grant applications for funding during FY 2018-19.

The Staff Attorney was also successful in assisting departments within the Institute in developing and executing a total of 53 contracts during FY 18-19.

GRANT	START DATE	STATUS	TOTAL
Model State-Supported AHEC (HRSA)	September 1, 2017	Awarded	\$3,090,000
Next Gen 9-1-1 Telemedicine Project	September 1, 2017	Awarded	\$ 500,000
Telehealth Resource Center Grant Program	September 1, 2016	Awarded	\$1,381,250
Telemedicine Wellness Intervention Triage and Referral	October 1, 2018	Awarded	\$ 565,560
House Bill 13 Community Mental Health Grant	July 1, 2018	Awarded	\$ 240,590
Behavioral Health Workforce Education	May 8, 2017	Awarded	\$ 485,296
<b>TOTAL</b>			<b>\$3,172,696</b>

## Funding for FY 2017-18

### ENDOWMENTS

The Marie Hall Chair in Rural Health	\$ 134,553
Smith/Vela/Patterson Senior Fellowship for Rural Health Research	\$ 165,115
F. Marie Hall Institute for Rural and Community Health	\$1,469,941

### STATE APPROPRIATED LINE ITEM FUNDING

Rural Health Care	\$ 708,482
West Texas AHEC Program	\$1,824,000

### ALLOCATED FUNDING TO SUPPORT TELEMEDICINE SERVICES

Correctional Managed Health Care Contract, Billed Clinic Services, and Community Telemedicine Network	\$ 534,810
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# Scholarly Activity

## PUBLICATIONS

Onks, C. (2019) Medicaid Work Requirements – Rural Health Quarterly 3 (2) 14. <http://ruralhealthquarterly.com/home/2019/06/21/medicaid-work-requirements/>

Curti, D. (2019) Social Isolation Poses Risks to Rural Seniors. Rural Health Quarterly, 3 (2) 12. <http://ruralhealthquarterly.com/home/2019/06/21/social-isolation-poses-health-risks-to-rural-seniors/>

Gong, G., Curti, D., Johnson, C., Hudson, C., Philips, B.U. (2019). Leading causes of death in rural and urban areas of the eleven Texas public health regions. Texas Public Health Journal; 71 (1), 5-13.

Carroll, T. B. (2018). Four Keys to Telemedicine Etiquette. Rural Health Quarterly, 2(3), 34. <http://ruralhealthquarterly.com/home/2018/09/05/four-keys-to-telemedicine-etiquette/>

Johnson, C., Gong, G., Curti, D., Philips, B.U. (2018). The benchmark of rural health: the top 10 leading causes of Death in rural Texas. Texas Public Health Journal; 70 (1), 18-23.

## PRESENTATIONS

Carroll, T. B. (2018) Telemedicine overview. Presented during First Year Medical Student P3 Tour. Texas Tech University Health Sciences Center HQ Plaza, Lubbock, Texas. October 2018

Carroll, T. B. (2018). Telemedicine overview. Presented during First Year Medical Student P3 Tour. Texas Tech University Health Sciences Center HQ Plaza, Lubbock, Texas. October 2018

Carroll, T. B. (2018). Telemedicine overview. Presented during First Year Medical Student P3 Tour. Texas Tech University Health Sciences Center HQ Plaza, Lubbock, Texas. October 2018

Carroll, T. B. (2018). Telemedicine overview. Presented during First Year Medical Student P3 Tour. Texas Tech University Health Sciences Center HQ Plaza, Lubbock, Texas. October 2018

Carr, Jeff (2018) CHW CEU Presentations- Crisis Intervention. October 2018

Jones, Becky (2018) Texas Health Improvement Network (THIN) Telemedicine Expert Panel, Austin, Texas. October 5, 2018

Rose, Sharon (2018) Panel Speaker, Healthier Texas Summit 2018, Next Generation 9-1-1 Telemedicine Medical Services Pilot Project, Austin, TX. October 2018

Phillips, Scott (2018) Panel Speaker, “Rural Health: Challenges, Assets, and Opportunities,” Healthier Texas Summit 2018, U.S. Rural Health Report Card, Austin, TX. October 2018.

Carr, Jeff (2018) National Rural Health Day - Community Health Workers CEU Presentations – Crisis Intervention. November 2018

Philips, B. (2018) TWITR Project- Overview, Mission & Support. Future-Ready Superintendent Leadership Network, Texas Association of School Administrators, Lubbock, TX. (75) November 8, 2018

Jones, Becky (2018) HRSA/Telehealth Resource Centers Talk Telemedicine Twitter Chat November 15, 2018

Philips, B. (2018) What TTUHSC is doing in the realm of Mental Health including the TWITR Project. Behavioral Wealth Workforce Collaboration, Austin, TX. (40)December 4, 2018

Jones, Becky (2018) Telehealth for Rural Texas and Beyond, RHP 3 Learning Collaborative, Houston, Texas. December 6, 2018

Jeff Carr (2018) CHW CEU Presentations Crisis Intervention. December 2018

Jones, Becky (2018) What Can Your TRC Do For You? Panel Discussion, Telehealth Technology Summit, New Orleans, LA. December 12, 2018

2018-2019-Becky Bounds Telemedicine 101 – 7 presentations, 45 attendees  
2018-2019-Becky Bounds-Lecture: Billing and Coding Telemedicine; content for each course, Frontiers in Telemedicine Training Lab

Carr, Jeff (2019) CHW CEU Presentations Addictions. January 2019

Philips, B. (2019) Overview of the Telehealth Program used to Screen, Evaluate and Treat Students. Hallettsville, TX. (15) February 1, 2019

Jones, Becky (2019) Telemedicine 101, Guest Lecture Webinar, Nurse Coach Educators Collaborative, American Holistic Nurses Association. February 21, 2019

Invited: Ashley, J., Carroll, T. B., Jones, B. (2019, February). Telemedicine equipment. Presented at Telemedicine Practical Skills Day, Texas Tech University Health Sciences Center SiMCentral, Amarillo, Texas. February 2019

Rose, Sharon (2019) Presented to Permian Basin Coalition

Meeting, Next Generation 9-1-1 Telemedicine Medical Services Pilot Project, Monahans, TX. February 2019

Rose, Sharon (2019) Presented to Permian Strategic Partnership, Next Generation 9-1-1 Telemedicine Medical Services Pilot Project, Midland, TX. February 2019

Philips, B. (2019) Cell phones to Telehealth in the Evaluation and Management of Epilepsy. Texas Pediatric Neuroscience Network Conference, Ft. Worth, TX (60) February 23, 2019

Carr, Jeff (2019) CHW CEU Presentations Crisis Intervention. February 2019

Carr, Jeff (2019) Positive Action Training to Hub City Outreach Team. March 2, 2019

Philips, B. (2019) School Safety and TWITR Program. Senate Education Committee. Capital Extension, Austin, TX. March 5, 2019

Invited: Carroll, T. B. (2019, March). CHWs in telehealth/telemedicine. Webinar presentation to the CHW Graduate Academy Conference, Permian Basin Area Health Education Center, Midland, Texas. March 2019

Carr, Jeff (2019) CHW CEU Presentations Behavioral Health Ethics. March 2019

Invited: Carroll, T. B. (2019, March). CHWs in telehealth/telemedicine. Webinar presentation to the CHW Gradu-

ate Academy Conference, Panhandle Area Health Education Center, Amarillo, Texas. March 2019

Hulsey, C., Jones, J., & Philips, B. (2019) Behavioral Threat Assessments: Preventing Threats in Advance. University of Texas School Law Conference. Austin, TX. (100) March 1, 2019

Carr, Jeff (2019) CHW Graduate Academies – Crisis Intervention-Panhandle AHEC. March 22, 2019

Carr, Jeff (2019) CHW Graduate Academies – Crisis Intervention-Permian Basin AHEC March 27, 2019

Rose, Sharon (2019) – Speaker Telehealth Alliance of Oregon Conference, Next Generation 9-1-1 Telemedicine Medical Services Pilot Project, Portland, Oregon April 2019

Invited: Carroll, T. B. (2019). CHWs in telehealth/telemedicine. Webinar presentation to the CHW Graduate Academy Conference, Desert Mountain Area Health Education Center, El Paso, Texas. April 2019

Jones, Becky (2019) How to Create a Virtual Telehealth Center Using Community Broadband, Panel Discussion, Broadband Communities Summit 2019, Austin, Texas April 8, 2019

Carr, Jeff (2019) CHW Graduate Academies – Crisis Intervention-Desert Mountain AHEC. April 16, 2019

Rose, Sharon (2019) Presented to Advisory Board, Next Generation 9-1-1 Telemedicine Medical Services Pilot Project, Lubbock, TX April, 2019

Carr, Jeff (2019) CHW CEU Presentations Introduction to Group Counseling April 2019

Flores, D. (2019) "What is AHEC"- Public Health Week-Lubbock, Texas Tech University Health Sciences Center, April 2019

Carroll, T. B. (2019). Telemedicine simulation lab and certificate course. Poster presented at the Telehealth at the Crossroads Conference, Lost Pines Hyatt Resort, Lost Pines, Texas. May 2019

Invited: Carroll, T. B. (2019). Community Health Workers (CHWs) in telehealth/telemedicine. Webinar presentation to the CHW Graduate Academy Conference, Big Country Area Health Education Center, Abilene, Texas. May 2019

Invited: Carroll, T. B. (2019). CHWs in telehealth/telemedicine. Webinar presentation to the CHW Graduate Academy Conference, Area Health Education Center of the Plains, Plainview, Texas. May 2019

Flores, D. (2019) "Rural Health Trends and Issues"- Rural Provider Shortages Symposiums, Abilene. May 2019

Carr, Jeff (2019) CHW CEU Presentations Introduction to Personalities. May 2019

Carr, Jeff (2019) CHW Graduate Academies – Crisis Intervention-AHEC of the Plains. May 10, 2019

Carr, Jeff (2019) CHW Graduate Academies – Crisis

Intervention-Big Country AHEC. May 22, 2019

Flores, D. (2019) "Rural Health Trends and Issues" Rural Provider Shortages Symposiums-Amarillo. June 2019

Carr, Jeff (2019) CHW CEU Presentations Lifespan Human Development. June 2019

Rose, Sharon (2019) Presented to Regional CEO Meeting, Next Generation 9-1-1 Telemedicine Medical Services Pilot Project, Covenant Health System Knippling Conference Center, Lubbock, TX. June 2019

Bounds, Becky (2019) Telemedicine for Rural Texas and Beyond, RHP 11 Learning Collaborative, Abilene, Texas. June 24, 2019

Bounds, Becky (2019)- Telemedicine for West Texas, West Texas HIMSS Health IT Innovations Fair, Lubbock, Texas. June 28, 2019

Carr, Jeff (2019) CHW CEU Presentations Physiological Psychology. July 2019

Flores, D. (2019) "Rural Health Trends and Issues"- Rural Provider Shortages Symposiums, Lubbock. July 2019

Flores, D. (2019) "Understanding Obesity-Urban vs Rural"- Obesity Research Cluster-Lubbock. July 2019

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## EXHIBITS

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Bounds, Becky (2018) AAFP Annual Conference, Office of the Future Exhibit. October 10, 2018

Bounds, Becky (2019) American Telemedicine Association, exhibit with National Consortium of TRCs. April 15, 2019

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## OFFICES/BOARDS/COMMITTEES

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### Billy Philips

2017-Present Member, Statewide Behavioral Health Coordinating Council

2016-Present Member, Texas Health Improvement Network (THIN) Committee

2016-Present Member, eHealth Advisory Board, Health and Human Services

2014-Present Telemedicine Stakeholders Committee, Texas Medical Board

July 2019- Present Clinical Integration Task Force Committee

### Sarah Looten

July 2019-Present Clinical Integration Task Force Committee

### Miguel Carrasco

October 2018 – June 2019 Hotel Liaison and Member TexLa Conference Committee

### Kelly Munoz

October 2018 – June 2019 Hotel Liaison and Member TexLa Conference Committee

### Cameron Onks

May 2019-Present TTUHSC Clinical Integration Task-force: Operating Policy Workgroup

### Becky Bounds

2019 TexLa Telehealth Resource Center Advisory Committee

2019 HB 1697 Work Group

2019 National Consortium of Telehealth Resource Centers, Internal Training Committee

October 2018-Present National Consortium of Telehealth Resource Centers, Creating Efficiencies Committee

June 2019-October 2019 TexLa Conference Committee

### Traci Carroll

September 2017 – Present Continuing Medical Education Coordinator and Member, Project Extension for Community Healthcare Outcomes (ECHO) Committee TTUHSC FMHIRCH, Lubbock, Texas

October 2018 – June 2019 Hotel Liaison and Member TexLa Conference Committee TTUHSC FMHIRCH, Lubbock, Texas

### Laura Lappe

September 2018-present Board Member, Plainview Foundation for Rural Health Advancement

### Lisa Wynn

October 2018 – June 2019 Hotel Liaison and Member TexLa Conference Committee

### Catherine Hudson

2019-SOCRA Board of Directors

### Scott Phillips

October 2018 – June 2019 Member TexLa Conference Committee TTUHSC FMHIRCH, Lubbock, Texas

### Debra Curti

January 2019-present GETAC Governor's Emergency/Trauma Advisory Council Injury and Prevention Committee member

May-June 2019 Member TexLa Conference Committee TTUHSC FMHIRCH, Lubbock, Texas

### Debra Flores

2018- September 2019 TTUHSC SOM Admissions- ex-officio member

2018- Present Statewide Behavioral Health Workforce Committee-member

2016-2019 LISD ATC Advisory Committee-member

2016-Present TPHA Governing Council-member

2018- Present TX Association of Promotor/CHW-Chair

2015-Present TRHA Member

2015- Present APHA-CHW section-member

### Jeff Carr

2018-Present Behavioral Health Workforce and Opioid Epidemic Peer Learning Team

### Estella Salazar

2017- Present BHW- Behavioral Health Workforce Academic and Community Partnerships Peer Learning Program

2017- Present Larry Combest Community Coalition

2017- Present Veterans Resource Coordination Group

2019-Present Mental Health First Aid Instructor  
2017-Present Community Health Worker (CHW)  
CHW Instructor  
2016-Present Resources United Meeting with South Plains Association of Governments (SPAG)

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## STUDENT ENGAGEMENT

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### Evan Akene

Volunteer  
Next Gen 911 project – Data entry

### Ozman "Javi" Ochoa

Volunteer  
T-CORE - Preliminary evaluation of Behavioral Health Workforce Education and Training program

### Diana Vo

SOM Summer Research Project  
TexLA TRC Program Evaluation



F. MARIE HALL  
INSTITUTE FOR  
RURAL AND  
COMMUNITY  
HEALTH

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