



**Clinical Research Institute  
TTUHSC**

**Annual Report  
FY2019**

*Promoting Patient-Oriented Research and Training*

**SUMMARY:**

The Clinical Research Institute (CRI) has again completed a very productive and successful year. Our online work order system functions well, and with the assistance of our IT department, specifically Brian Nordstrom, this system is fine-tuned as needed to improve ease of use and reporting.

Overall, the number of work orders this fiscal year (FY) was similar to last FY at 167, with the majority originating in School of Medicine (SOM) in Lubbock, as in previous years. While FY18 demonstrated a drop in work orders from the Permian Basin campus, FY19 showed a slight increase of 11%. The work orders from the Amarillo campus also increased from 3 to 11 this FY, a significant 267% rise. Notably, for FY19, we saw an almost 43% increase in the number of work orders from the School of Nursing (SON).

The number of novice investigators, defined as faculty who have not worked with the CRI in the last 3 years, went up significantly from 26 in FY18 to 35 in FY19. In an effort to demonstrate the involvement of TTUHSC faculty in study conduct activities, referrals by Principal Investigators are tracked by the CRI research coordinators. This year saw a dramatic increase in those referrals on both the Permian Basin and Lubbock campuses where research coordinators are available to facilitate the projects. The Permian Basin had a 108% increase, and Lubbock a 788% increase. Finally, number of presentations and published manuscripts each almost doubled for FY19.

The CRI will again see change in FY20 with the retirement of its current Executive Director, Dr. Alan Peiris. However, we are excited about the appointment of John Griswold, MD, as the new Executive Director beginning September 1, 2019, and the opportunities this presents for clinical research at TTUHSC.

**ACHIEVED GOALS & OBJECTIVES:**

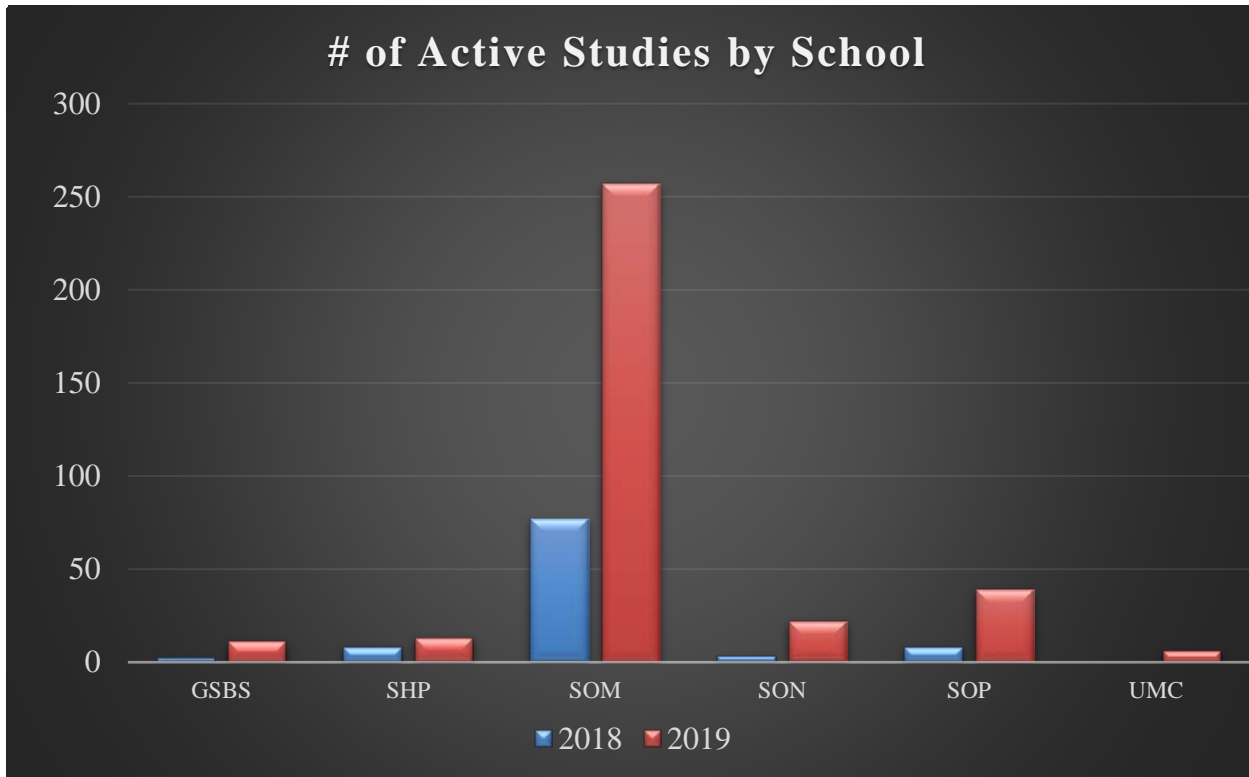
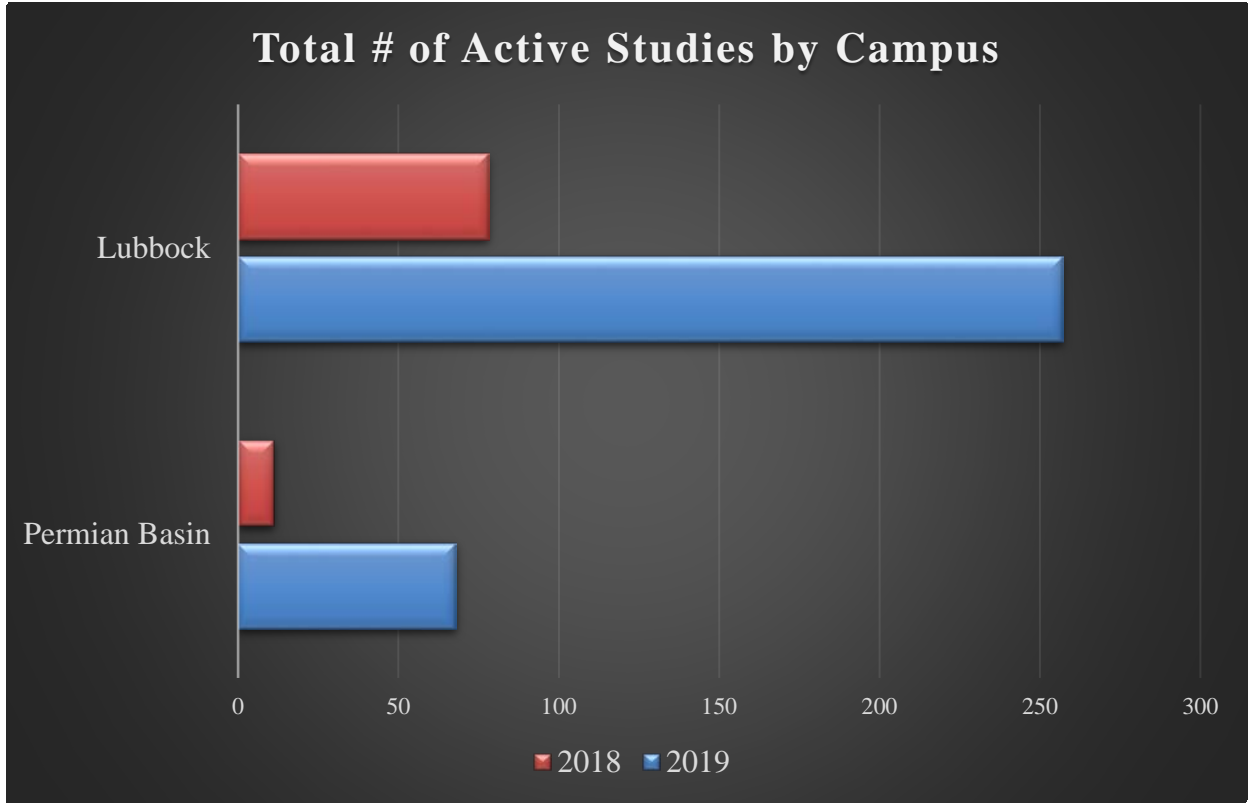
The activities of the CRI during FY19 as compared to FY18 are summarized in the following tables/graphs:

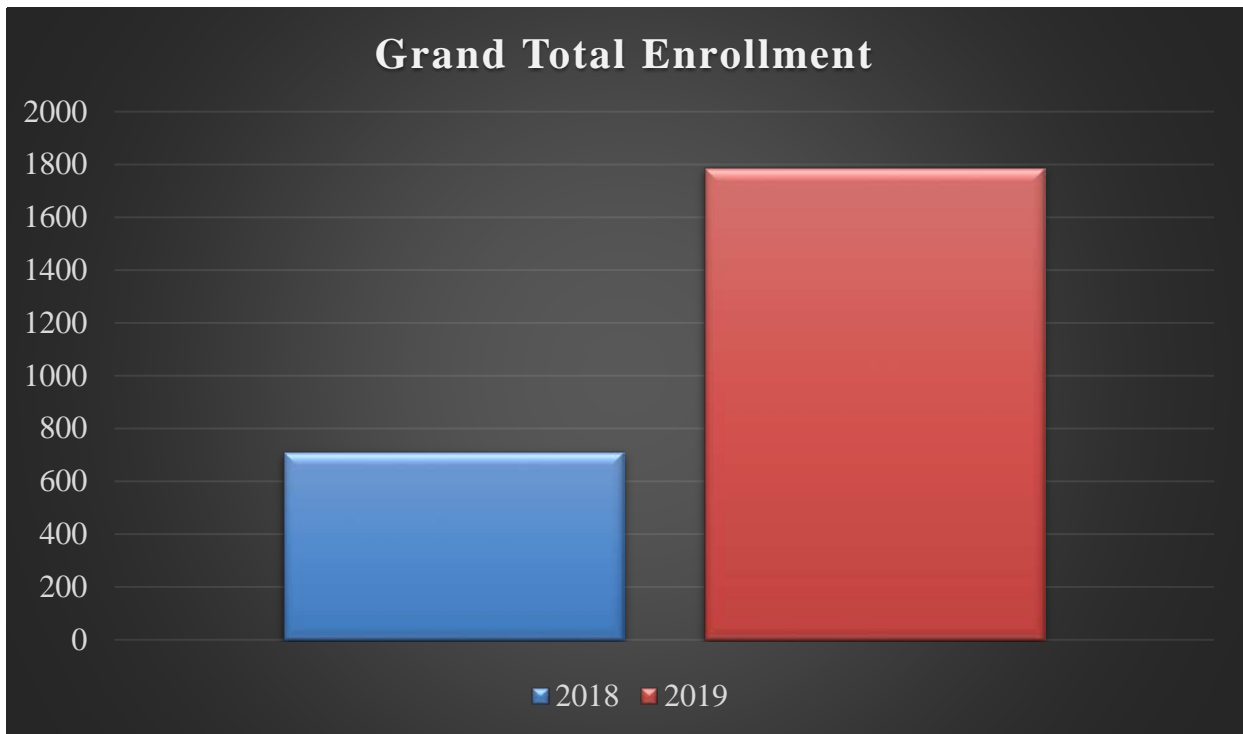
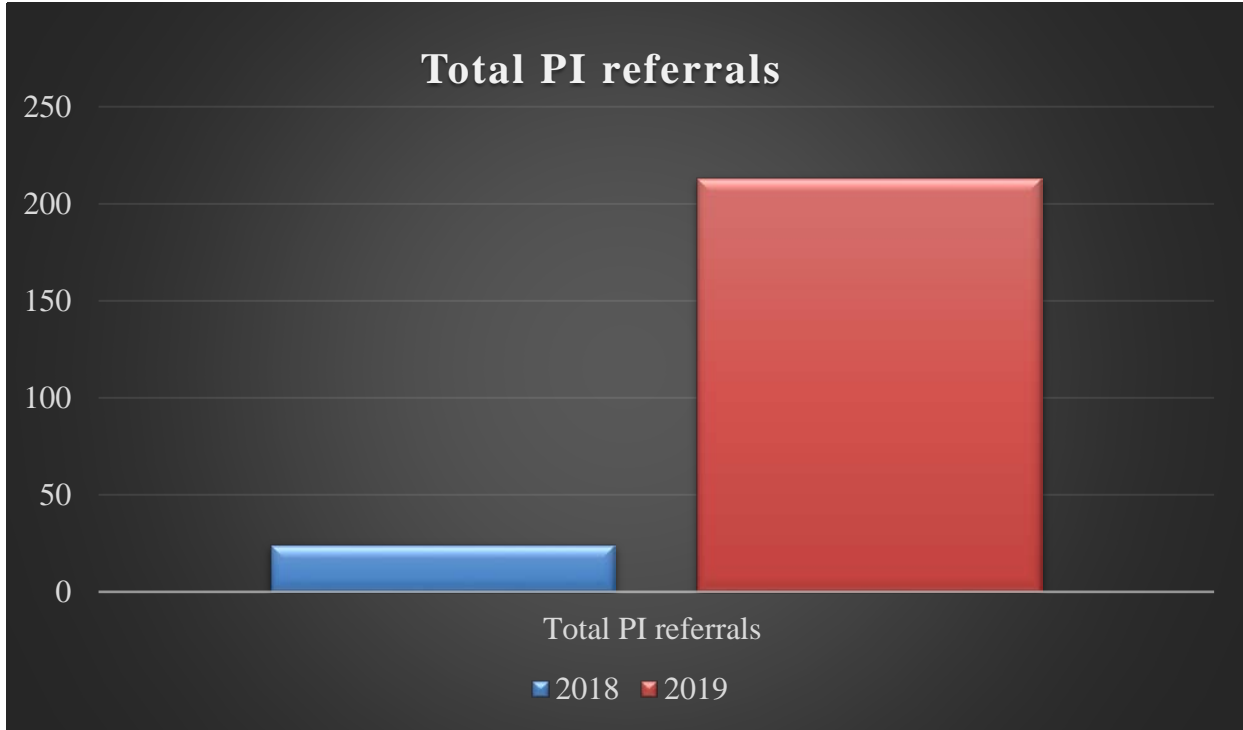
**Table 1: Summary**

	<b>FY18</b>	<b>FY19</b>	<b>% Change</b>
<b>New Clinical Research Studies to IRB</b>	98	90	-8.16
<b>Novice Investigators</b>	26	35	34.62
<b>Participating Subjects</b>	709	1786	151.90
<b>Forms Sent to the IRB</b>	558	673	20.61
<b>Protocol Reviews</b>	161	482	199.38
<b>Statistical Analysis &amp; Reporting</b>	165	119	-27.88
<b>Abstracts Presented</b>	9	11	22.22
<b>% Abstracts Presented – <i>PubMed Indexed</i></b>	22.2%	9.09%	-59.05
<b>Research Presentations</b>	52	77	48.08
<b>Published Manuscripts</b>	42	68	61.90
<b>% Published Manuscripts – <i>PubMed Indexed</i></b>	83.3%	77.94	-6.43
<b>Educational Presentations by CRI</b>	40	34	-15.00
<b>Studies Closed – Completed</b>	27	28	3.70

**Table 2: FY19 Approved Work Orders by School and Campus**

<b>School</b>	<b>Lubbock</b>	<b>Odessa</b>	<b>Amarillo</b>	<b>Dallas</b>	<b>Abilene</b>	<b>Total # of WO by School</b>	<b>% of Total WO for each School</b>
<b>SOM</b>	123	10	5	0	0	138	82.63
<b>SON</b>	10	0	0	0	0	10	5.98
<b>SOHP</b>	7	1	0	0	0	8	4.79
<b>SOP</b>	0	0	6	1	3	10	5.98
<b>GSBS/PH</b>	1	0	0	0	0	1	0.59
<b>TOTAL WO by Campus</b>	141	11	11	1	3	<b>167</b>	





**FUNDING:**

The funding for the CRI is unchanged: it is primarily funded through the offices of the TTUHSC President and Provost. A modest tax on the clinical departments within the School of Medicine in Lubbock provides additional financial support. In the Permian Basin, the Dean's Fund, monies mostly generated by the uncompensated care (UC) tool, provide much of the financial support for the Odessa CRI office. The Dean of the School of Pharmacy also contributes to CRI funds, along with the Lubbock affiliated hospital, University Medical Center, through a contractual arrangement with the CRI and the School of Nursing.

**MEMBERSHIP:**

All faculty and trainees at TTUHSC are considered members of the CRI. The Clinical Research Institute is governed by an Advisory Committee that met six times during FY19. It is composed of faculty representatives from all schools and campuses, the TTUHSC President and Provost, the Director of the F. Marie Hall *SimLife* Center, and the Executive Leadership Team made up of the three Directors of the CRI: Executive Director Alan Peiris, MD, PhD, FRCP (London), Thomas Tenner, Jr. PhD, Assistant Director, and Catherine Lovett, MSN, RN, Managing Director (The full list of members is provided in Appendix B).

There are eight study coordinator positions (3 RNs, 3 LVNs, 1 MBA, 1 MS): five in Lubbock and three on the Permian Basin Campus. This year the number of positions in the Permian Basin CRI office decreased from four coordinators to three, due to the decrease in clinical research activity on that campus for the past two years. There is one regulatory specialist for submissions to the IRB, a study monitor, a section manager, and an administrative assistant. FY19 saw staff changes in the CRI biostatistical arena. Rohali Keesari, MPH, PharmD, joined the CRI in November of FY19. Eneko Larumbe, PhD, left the CRI in December of FY19. In May 2019, Mhd. Hasan Almekdash, MA, MS, PhD, came on board as the CRI's Director of Biostatistical Services/Senior Biostatistician. The full list of CRI staff members is provided in Appendix C.

**EDUCATION:**

Education of faculty on clinical research is a major focus of the CRI. However, we also take the opportunity to educate the public when possible. In November 2018, the Executive Director served as a guest speaker for HealthWise with Karin McKay, a local news program. In the spring, Dr. Peiris presented an overview of the Clinical Research Institute to the School of Medicine faculty in the Grand Rounds Program on the Amarillo campus. He was selected to serve on the Scholarly Activity and Research Forum in March, 2019, on the Permian Basin campus. Dr. Peiris, along with faculty collaborators (Drs. Jannette Dufour, Gurvinder Kaur, Cassandra Kruczek, Neha Mittal, and Rebecca Sleeper) and student collaborators (Jessica Agrimor, Anna Calara, Sarah Jaroudi Jeremy Moon, Sneha Raju, Shannon Rice, Kandis Wright) wrote a book entitled, "Interesting Clinical Vignettes – 101 Ice Breakers for Medical Rounds." The book is free to all to download from the CRI website for distribution.

The CRI co-sponsored and participated in the Translational and Clinical Research – Developing a Research Proposal course through the Office of Faculty Affairs and Development. Additionally, Cathy Lovett and Dr. Tom Tenner lectured on Clinical Research, the CRI and IRB and Epidemiology Research Methods in the Graduate School of Biomedical Sciences - Department of Public Health course.

Cathy Lovett, Managing Director, along with Safety Services, facilitated the inspection and inventory of the SOM Permian Basin lab prior to the lab's relocation to the new building. She also wrote a brief column for the School of Nursing Newsletter entitled Do's and Don'ts of Clinical Research. The CRI was asked to tutor the new School of Nursing Research Associate on IRB procedures.

Dr. Rohali Keesari has given four lectures on the topic of biostatistics and research since joining us in November 2018.

CRI participated in Resident Day on the Permian Basin campus on June 24, 2019. Staff visited with the incoming residents and provided research information to those seeking research opportunities. On the Lubbock campus, staff participated in the Collaboration Across Pain Science and Practice, 4<sup>th</sup> Annual Symposium, April 11-12, 2019. Staff greeted attendees, answered questions, provided information, and distributed CRI branded merchandise.

The monthly CRI Research Workshops began in the fall of 2017. These sessions covered a diverse set of topics in clinical research, which are provided in Appendix D. The workshop offered faculty and trainees the opportunity to bring research ideas for discussion combined with a didactic presentation by experienced research faculty. Unfortunately, the workshops were not well attended, so we suspended future events until a strategy to improve faculty and student attendance can be implemented.

The CRI continues individual interactions with investigators and trainees. These meetings involve protocol development, study design, conduct of the study, data analysis, presentations, and publications. Our experienced research coordinators and study monitor are available for clinical studies. Many of the research coordinators are nurses and/or are certified by their professional organization. The entire CRI team works closely with investigators to assist with study completion with the intent to publish in MEDLINE/PUBMED journals. The CRI leadership has contributed to the recruitment efforts of the institution by discussing the role of the CRI with potential faculty employees, including School of Medicine department chair candidates.

#### **DIRECT ASSISTANCE WITH THE STUDIES:**

CRI personnel work with the investigators and trainees during each phase of a proposed study.

1. Each investigator submits a draft protocol, following the template provided on the CRI website. The protocol includes the research question/s, the background forming the basis for the question, the hypothesis, the study design, the methodology to be used, the statistics for analysis, and the potential significance of the study results. Members of the CRI team, including the biostatistician, work closely with the investigator's team during this process.
2. Assistance is given in developing documents such as informed consent forms, data collection forms, surveys, the application, and subsequent amendments/reports to the IRB.

3. After IRB approval, the research coordinators consent and enroll subjects, collect samples, data, and essentially conduct the study under the direction of the Principal Investigator.
4. Once study accrual has been completed, the biostatisticians analyze the data, construct tables and figures, and assist in writing the presentation/manuscript. Members of the CRI Executive Leadership are available and often assist the principal investigators in completing or revising the articles prior to submission to the journal of their choice.

CRI services are provided at no cost to the investigators due to the funding mechanisms in place. This unique system allows investigators to obtain pilot data necessary to support future funding requests. The CRI resources are invaluable to faculty with busy schedules and help to partially offset the lack of protected time for research.

CRI assisted faculty with their grant submissions, by editing, performing IRB work, and/or providing statistical and coordinator support, facilitating \$474,539 being awarded to the faculty. That was an 80.98% increase over 2018. The CRI Seed Grant program awarded \$20,000 in seed grant monies (\$10,000/each, Drs. Queen/Nazim and Drs. Rumbaugh/German).

#### **NEW EXECUTIVE DIRECTOR'S STRATEGIC PLAN:**

The goal of the CRI is to support and develop research interests of every faculty and student within the TTUHSC. This will be done by increasing awareness of the CRI, its services, and capabilities to all faculty and students, no matter the level of research experience. CRI will provide specific education on the basics of high quality clinical research and increase investigator-initiated efforts, bringing ideas for improvement in patient care to practical research efforts. These projects must be guided to completion with opportunities for presentation and publication. The CRI will nurture the clinical scientists of tomorrow by connecting aggressively with our students in all schools of the HSC to demonstrate the value of participation in research, provide education for development of research activities with training on scientific design and good clinic research practices. This includes helping the students participate and time-manage in order to see research as an important part of their clinical activity. We will work with stakeholders to construct a format for increasing industry-sponsored research that provides for successful collaboration between industry, HSC, and CRI. That success will be measured by the highest quality human subject oversight, meticulous protocol adherence, successful recruitment, and presentation/publication whenever possible.

Construction of new buildings on both the Lubbock and Permian Basin Campuses is permitting relocation of the CRI facilities on both campuses, although CRI needs funding support for the renovation costs. In Lubbock, the CRI suite is expected to move to the fourth floor by the spring of 2020. This will enable greater exposure of the CRI and easier access to the CRI staff and clinic to both study subjects and investigators. On the Permian Basin campus, the suite is scheduled to move from the Administration building to the Clinic building in FY20, which will markedly increase the efficiency of the operation and lead to more interaction with the investigators, trainees, and study participants.

Following are a few notable events during 2018-2019: Kelsey Jendrzey graduated with her Master's Degree in Healthcare Administration from Texas Tech University, May 2019. Eva



Santiago received her TTUHSC 15-year service pin, as well as a Certificate of Appreciation from the Ector County Independent School District recognizing her efforts to facilitate the “Growth and Development Health Education Program.” Ms. Santiago and her colleague, Jammie Holland, issued 201 gift cards to the subjects on Drs. Rama Chemitiganti and Hassan Khalid’s study entitled, “Simplifying the Reporting and Interpretation of Reference Ranges for Clinical Lab Tests.” Dr. Alan Peiris was awarded the President’s Excellence in Teaching Award and Dr. John Griswold was awarded the President’s Outstanding Clinician Award. Dr. Alyce Ashcraft in the School of Nursing received the 2019 CRI Consultant Award. William Nesbitt, MS1-2 won the 2019 Dr. Lorenz Lutherer Award for his GSBS Student Research Week poster presentation; Meredith Gavin, MS4 was awarded the 2019 CRI Medical Student Award for Outstanding Scholarship, and Sarah Jaroudi, MS4 was recognized for her Prodigious Scholarly Activity Working with the CRI. Catherine Lovett continues to Chair the Society of Clinical Research Associates (SoCRA) West Texas Chapter. This chapter hosts educational meetings at which diverse topics related to clinical research are presented and discussed. Ms. Lovett continues to work with administration on the University Medical Center/Cerner research project. Ms. Lovett, Ailena Mulkey and Jammie Holland attended the Association of Clinical Research Professionals Annual Meeting in Nashville, TN, which provides a wide-range of continuing education topics in clinical research standards and industry-guidelines, as well as networking opportunities with other academic institutions and industry.

The CRI has experienced considerable growth over the last few years and continued expansion is expected if additional funding support is provided for the necessary resources. This report denotes our success, but also highlights opportunities. The CRI is committed to providing clinical research guidance and in a collaborative, supportive environment. We look forward to another year of exciting research activity at TTUHSC.

# Appendix

## A. Dissemination of Results

### Abstracts (11) \*PubMed

Ahnood E, Bradley B, Kesey J, Larumbe E, Griswold J. The use of methadone plus Gabapentin as a multimodal pain regimen compared with traditional pain management protocols in burn patients: A retrospective study. *Journal of Burn Care & Research* (Vol. 40, pp. S43–S43). <https://doi.org/10.1093/jbcr/irz013.064>

Bhargavi K, Tunnell J, Mikesell M, Agusala V. Breast feeding support-Do female health care providers perform better than their male peers? *Pediatrics* May 2018, doi: 10.1542/peds.142.1\_Meeting Abstract.690

Bouffard E, Mudaliar NS, Colmer-Hamood JA, Griswold JA, Dissanaik S, Hamood AN. Development of a serum therapy to protect severely burned patients from pseudomonas aeruginosa. *Journal of American College of Surgeons*, 2018 October; 227(4S1): S261. doi: 10.1016/j.jamcollsurg.2018.07.535

Edwards D, Buck K, Teigen K. Key drivers of sports medicine physician well-being and satisfaction. *Clin J Sport Med*. March 2019. 29(2):113

Francisco A, Jaroudi S, Ali-Murtaza M, Frost J, Chemitiganti R, Peiris AN. Clomiphene: An underutilized option in the treatment of hypogonadism complicated by polycythemia. Annual Meeting, Endocrine Society, New Orleans, LA, March 23-26, 2019.

Griswold J. Plurogel for burns and complex wounds. National Sales Meeting, Medline, Phoenix, AZ, January 16, 2019.

Kalenkoski CM, Lyford C, Korankey T, Gavin M, Peiris AN. Vitamin D, Cognitive function and gait speed in older adults - A NHANES Study. Annual Conference, American Geriatrics Society, Portland, OR, May 2-4, 2019.

\*Lenzmeier T, Mudaliar NS, Stanbro JA, Watters C, Ahmad A, Simons MP, Ventolini G, Zak J, Colmer-Hamood JA, Hamood AN. Application of lactobacillus gasseri 63 AM supernatant to pseudomonas aeruginosa-infected wounds prevents sepsis in murine models of thermal injury and dorsal excision. *Journal of Medical Microbiology*, doi: 10.1099/jmm.0.001066. PMID: 31460863

MacKay BJ, Suryavanshi JR, Osemwengie B, Swinford NE, McKee DM. Evaluation of post-operative outcomes in patients following multi-level surgical reconstructions with the use of avive soft tissue membrane on nerve after traumatic injury of the upper and lower extremity. 2019 Annual Meeting, American Association for Hand Surgery (AAHS), Palm Desert, CA, January 20-February 2, 2019.

Prabhu F, Sneed Z, Bennett K, Khan A, Mendez E, Powers H, Wichmann A, Miller M. Retrospective chart reviews and substance use disorders at an indigent-care clinic. The Society

for Teachers in Family Medicine Annual Spring Conference, Toronto, ON, Canada, April 27-May 1, 2019.

Taha A, Larumbe E, Abugroun A, Mohammedzein A, Ashangari C, Al-Abboodi Y, Patel M. Outcomes of positive pressure ventilation in acute respiratory distress syndrome and their predictors: A national cohort. American Thoracic Society International Conference (p. A114), Dallas; TX.

### **Manuscripts (68) \*PubMed**

Adams L, Tucker A, Dennis JA, Dissanaik S. Impact of time spent in the trauma bay on mortality outcomes among level 1 trauma patients. *Trauma*. Online August 27, 2018. <https://doi.org/10.1177/1460408618789964>

\*Agarwal R, Gupta A, Fendrick A. Value-based insurance design improves medication adherence without an increase in total health care spending. *Health Affairs*, July 2018, Vol. 37(7). <https://doi.org/10.1377/hlthaff.2017.1633>. PMID: 29985690

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\*Ali E, Peiris AN. Secondary adrenal insufficiency induced by long-term use of opioid analgesics. *Baylor University Medical Center proceedings*, <https://doi.org/10.1080/08998280.2019.1600180>. PMID: 31384206

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Bandino JP, Purvis CG, Shaffer BR, Gad A, Elston DM. A comparison of the histopathologic growth patterns between non-Merkel cell small round blue cell tumors and Merkel cell carcinoma. *Am J Dermatopathology*. 2018. (doi: 10.1097/DAD.0000000000001232)

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Buie J, deRiese W, Sharma P. Smaller prostate volume is associated with adverse pathological features and biochemical recurrence after radical prostatectomy. *Urological Science Journal*, doi: 10.4103/UROS>UROS\_28\_19

Buie J, deRiese W, Sharma P. Inherent biases in patient-reported satisfaction with care in the outpatient setting. Greenbranch Publishing LLC. *Journal of Medical Practice Management: MPM*; Phoenix Vol. 34, Iss. 2, (Sep/Oct 2018): 108-119.

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Chauncey K, DeCanio B, Larumbe E, Reed DB. The effect of an intervention to increase fruit and vegetable intake on skin carotenoid scores. *Topics in Clinical Nutrition*, 34(3), 233–243. <https://doi.org/10.1097/TIN.0000000000000177>

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Dennis J, Alazzeah A, Kumfer A, McDonald-Thomas R, Peiris AN. The association of unreported sleep disturbances and systemic inflammation: Findings from the 2005-2008 NHANES. *Sleep Disorders*, Vol. 2018, Article ID 5987064, 8 pages, <https://doi.org/10.1155/2018/5987064>

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### **Presentations (77)**

Ahmed M, Wang J, Carder T, Lee S, Alam N. Association of Vitamin D deficiency with history of fracture risk factors among geriatric patients. *Texas Tech University Health Sciences Center, Permian Basin Student Research Day, May 10, 2019, Odessa, TX.*

Ahnood E, Bradley B, Griswold J. The use of methadone gabapentin as a multimodal pain regimen compared with traditional pain management in burn patients. *North Texas Chapter ACS Meeting, February 23, 2019, Dallas, TX.*

Ahnood E, Bradley B, Kesey J, Larumbe E, Griswold J. The use of methadone plus gabapentin as a multimodal pain regimen compared with traditional pain management protocols in burn patients: A Retrospective Study. *American Burn Association Annual Meeting, April 4, 2019, Las Vegas, NV, and North Texas Chapter ACS, February 23, 2019, Dallas, TX.*

Al Dogom S, Cordero J, Nguyen T. Complications of thyroid surgery retrospective review of cases performed at Texas Tech University Medical Center. *Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.*

Alam N, Jain S, Brar K. Association between psychological distress and 25 (OH) Vit D level in elderly. *Texas Tech University Health Sciences Center, Permian Basin Student Research Day, May 10, 2019, Odessa, TX.*

Alhaj Saleh A, Estrada M, Sorensen G, Aryaie A. Safety of over sewing the reinforced staple line vs reinforced stapler only in sleeve gastrectomy: comparing two surgeons' techniques in a single institution. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Ali F, Aryaie A, Larumbe E, Williams M, Onkendi E. Does selective use of hepatobiliary scintigraphy (Hida) scan, following equivocal non-diagnostic ultrasonography in patients with acute cholecystitis, affect outcomes. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Ali Z, Selvan V, Hong M, Yang H. Safety and effectiveness of adjusted body weight daptomycin dosing across a hospitalized obese population. Texas Tech University Health Sciences Center, Permian Basin Student Research Day, May 10, 2019, Odessa, TX.

Anderson B. Trends in LGTBI education. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Ashcraft A, Owen D. Targeted assessment education not SBAR completion. 2019 Gerontological Association of America Conference, Boston MA.

Attaluri P, Tan ML, Griswold J. Serum myoglobin predictive of acute kidney injury (AKI) after high voltage electrical contact injuries. Southern Regions Burn Conference, November 10, 2018, Mobile, AL.

Attaluri P, He E, Henderson J, Tan M L, Larumbe E, Kesey J, Puckett Y, Griswold J. Using myoglobin as serum marker in administering renal protective therapy in electrical burn patients. Academic Surgical Congress, February 7, 2019, Houston, TX.

Barnes A. Resident burnout: A comparative survey of primary care residents in Texas. Texas Tech University Health Sciences Center, Permian Basin Student Research Day, May 10, 2019, Odessa, TX.

Bhargavi K. Impact of parental asthma education on health care utilization. 2018 Academy Health Annual Research Meeting, March 2018, Seattle, WA.

Bouffard E, Mudallar N, Colmer-Hamood JA, Hamood AN, Griswold J, Dissanaik S. Development of a serum therapy to protect severely burned patients from pseudomonas aeruginosa. ACS Clinical Congress, October 21-25, 2018, Boston, MA.

Boylan K, Levent F. Knowledge and attitudes of medical students about the HPV vaccine. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Caballero B, Puckett Y, Estrada M, McReynolds S, Richmond R, Ronaghan C. Open abdomens with ongoing intraabdominal pathologies successfully closed using a dynamic tissue system and

biologic xenograft. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Carder T, Alam N, Wang J, Ahmed M. Severity of vitamin D deficiency among patients with hip fracture in West Texas community. Texas Tech University Health Sciences Center, Permian Basin Student Research Day, May 10, 2019, Odessa, TX.

Carlton L, Venable A, Kesey J, Griswold J. Burn specific pain control and anxiolytic education reduces reversal agents' use in a burn center. Southern Regions Burn Conference, November 9, 2018, Mobile, AL.

Cook E, Zhao-Fleming H, Northcut A, Mitchell D, Ike C, Rumbaugh K, Dissanaik S. The impact of obesity and sex on necrotizing soft tissue infection mortality. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Covington LP, Freudenberg D, Patel M, Lopez N, Young RB, MacLaughlin EJ. Impact of a pharmacist-driven protocol to improve guideline-concordant prescribing of diabetes medications in patients with atherosclerotic cardiovascular disease. 2019 Alcalde Southwest Leadership Conference. April 11, 2019, Frisco, TX.

Covington LP, Fiss KM, Sbar E, MacLaughlin EJ. Utility of subsequent Medicare annual wellness visits. 2019 Alcalde Southwest Leadership Conference. April 10, 2019, Frisco, TX.

Cox B, Kaur M, Weiser D, Gomez V, Nur M, Levent F. Gender differences in knowledge and attitudes about HPV infection and vaccination among health care providers. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

deRiese C, Graham G, MacLeay K, Hope B. Risk factor and associations with surgical site infections after cesarean sections at a local facility. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

deRiese C, Meiser R, Wlazlo T. Prenatal care visit frequency; the patient perspective. Gender-Specific Medicine & Women's Health Symposium, Seventh Annual, Presented by The Laura W. Bush Institute for Women's Health & The Office of the Provost, TTUHSC, October 2018, Lubbock, TX.

Dennis J, Zhang Y, Zhang F. Gender differences in principle procedure received and clinical outcome for patients treated for heart attack at UMC from 2-13-2016. Gender-Specific Medicine & Women's Health Symposium, Seventh Annual, Presented by The Laura W. Bush Institute for Women's Health & The Office of the Provost, TTUHSC, October 2018, Lubbock, TX.

Dharmarandi G, Mitchell J, Mitchell K. Concussion experience of medical students and residents. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Dhir N, Nair N. Medical versus surgical therapies for pump thrombosis: Mortality assessed by meta-analysis. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Fa A, Gandhi K, David S, Maher J, Esquivel E, Gundenkauf B, Alpadi K, Shreyder K, Schlabritz-Lutsevich N. Maternal obesity in early pregnancy is associated with the decreased active IGF-I availability. Texas Tech University Health Sciences Center, Permian Basin Student Research Day, May 10, 2019, Odessa, TX.

Foley D, Gracey A, Cox C, Mackay B. Retrospective radiographic bilateral comparison of index to middle finger ratios (2D:3D) in adults. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Frost J, deRiese W, Smith L. Possible clinical implications of peripheral zone changes depending on prostate size. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Gavin M, Manning R, Thilakarathne R, Shippey S, Peiris AN. Gender disparities within the physician-industry relationship. Gender-Specific Medicine & Women's Health Symposium, Seventh Annual, Presented by The Laura W. Bush Institute for Women's Health & The Office of the Provost, TTUHSC, October 2018, Lubbock, TX.

Graham G, MacLeay K, Hope B, deRiese C. Risk factors and association with surgical site infections after cesarean sections at a local facility. Gender-Specific Medicine & Women's Health Symposium, Seventh Annual, Presented by The Laura W. Bush Institute for Women's Health & The Office of the Provost, TTUHSC, October 2018, Lubbock, TX.

Hall B, Whitaker M. Ways to actively engage toddlers and their caregivers. Texas Speech-Language-Hearing Association Annual Convention, February 28 – March 2, 2019, Houston, TX and Technical Clinical Session at the American Speech-Language-Hearing Association Annual Convention, Orlando FL.

Hanson K, D'Souza P, Pillutla P, Presto P, McCarty B, Nagy L. Child abuse and deformational plagiocephaly in a West Texas hospital system. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Hess A, Cooper C, Hope B, Hope L, Wagner C, O'Banion S, Kesey J, Griswold J. Tube feeding through surgery: Impact on glucose control and insulin therapy in burn patients. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Hsu L, Lee S, Gandhi K, Schlabritz-Lutsevich N, Ventolini G. Hormonal contraception in vulvodynia: Selected pathway analyses. Texas Tech University Health Sciences Center, Permian Basin Student Research Day, May 10, 2019, Odessa, TX.

Huynh U, Perry GK, Lee YR. Effect of a pharmacist-driven management protocol on the probiotic combination of Lactobacillus strains for prevention of Clostridium Difficile infection in

hospitalized adult patients. 2018 ASHP Mid-Year poster session, December 2018, Anaheim, CA.

Ibilbor C, Grand R, Daneshfar C, deRiese W, Smith C. Impact of retained ureteral stents on long-term renal function. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Jacob D, Hanson K, Saleh A, Dissanaik S. Older patient's age and longer duration of symptoms significantly increases preformation risk in appendicitis; time to operation and antibiotics do not. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Jimenez B, Pelley J. Understanding patient and physician communication preferences to improve patient care. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Johnson, PG, Sikes D, Cookman JC, Jones MM, Casida D, Salinas ID, Goodwin D. Transitioning military health care providers into the professional nursing role Council of College and Military Educators, January 23, 2019, Austin, TX.

Karimi A, Elmassry M, Dissanaik S, Griswold J, Colmer-Hamood J, Hamood A. *Acinetobacter baumannii* differentially regulates its transcriptome during its growth in blood from severely burned patients. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Kesey J, Griswold J. Fecal microbiota transplant as a treatment strategy for *Clostridium Difficile* infection in hospitalized patients with burns and soft tissue injuries. Southern Region Burn Conference, November 9, 2018, Mobile, AL.

Khan, AS, Mendez E, Powers Wall H, Sneed Z, Prabhu F. Evaluation of methamphetamine prevalence rates in an indigent-care clinic via retrospective chart review. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Kopacz A, Hanson K, Stephens M, Tangella N, Elberson B, Aousouza P, Presto P. Foramen size a potential risk factor for febrile seizure development in the pediatric population. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Le A, Nix E, Tully N, Dissanaik S. Developing a database for forensic analysis: Impact of exposure time and water temperature on scald burns in human skin. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

MacKay BJ. Retrospective radiographic bilateral comparison of index to middle finger ratios (2D:3D) in adults. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

MacLeay K, Dasaraju A, deRiese C. Investigating the association between metabolic syndrome and adenomyosis and metabolic syndrome. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

MacLeay K, Dasaraju A, de Riese C, Larumbe-Zabala E. Investigating the association between metabolic syndrome and adenomyosis. Gender-Specific Medicine & Women's Health Symposium, Seventh Annual, Presented by The Laura W. Bush Institute for Women's Health & The Office of the Provost, TTUHSC, October 2018, Lubbock, TX.

McCarty B, Nagy L, Stephens M. Comparison of degenerative changes in the spines of 10-16 year old children presenting with lower back pain based on BMI and sport (football, baseball and gymnastics) participation. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Medeiros T, Bui V, Lee YR. Rate control with intravenous diltiazem, metoprolol and verapamil in acute atrial fibrillation with rapid ventricular rate in the emergency department. 2018 ASHP Mid-Year Annual Meeting, December 2018, Anaheim, CA.

Mendez E, Khan A, Powers H, Miller K, Sneed Z, Prabhu F. Evaluation of methamphetamine prevalence rates in an indigent-care clinic via retrospective chart review. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Mintz-Binder RD, Allen P. Offering a systematic approach for nursing programs to fully respond to a student suicide. Nurse Educator's Conference in the Rockies, July 11-13, 2018, Vail, CO.

Navarro S, Colmer-Hamood J, Nelius T, Hamood A. Different uropathogens produce diverse biofilms on urinary catheters. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Nesbitt W, Pranav S. Visceral fat is associated with high-grade complications in patients undergoing laparoscopic or robotic-assisted partial nephrectomy for small renal masses. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Nguyen P, Klein M, Greenlee E, Santana D, Griswold J, Gaitonde K, Ellis N. Validity assessment of a real-time indicator of task-induced fatigue among novices in the minimally-invasive surgery environment. Human Factors in Health Care Conference, March 2019, Chicago, IL.

Osemwengie B, Sorensen G, Griswold J. Management of postsurgical donor site pain in burn injuries using a preoperative combination of bupivacaine plus liposomal bupivacaine injections. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Palmere PJ, Burton CE, Venavides TM, Lee YR. Therapeutic enoxaparin dosing in morbidly obese patients. 2018 ASHP Mid-Year Annual Meeting, December 2018, Anaheim, CA.

Pillutla P, Schwartz C, Nguyen TQ. Intrathyroidal parathyroid carcinoma: Case study and literature review. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Rich G, Vanh D. Building blocks of LEGO serious play facilitation in a residency program. Texas Tech University Health Sciences Center, Permian Basin Student Research Day, May 10, 2019, Odessa, TX.

Rodriguez L, Krovidi R, Moore D. Teaching the cervical exam using a cost-effective simulation model. Texas Tech University Health Sciences Center, Permian Basin Student Research Day, May 10, 2019, Odessa, TX.

Schneider LW, Crenshaw JT, Gilder RE. Evaluating a practice change: Does skin-to-skin contact during cesarean surgery reduce NICU observations? Sigma Theta Tau International 2018 Nursing Education Research Conference, April 19-21, 2018, Washington DC.

Selvan Ali, Haniel. Safety and effectiveness of adjusted-body weight daptomycin dosing across a hospitalized obese population. Alcalade 33rd Southwest Leadership Conference, April 10-11, 2019, Frisco, TX *and* Permian Basin Student Research Day May 10, 2019, Odessa, TX *and* American Board of Medical Specialties, Chicago, IL.

Shen CL. Tocotrienols in bone protection: from animals to humans. Shanghai Institute of Nutrition and Health, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences. October 24, 2018. Shanghai, China *and* Conference on the Science and Industry of Health Products (CNIC), October 26, 2018, Shanghai, China.

Shreyder K, Carrillo M, Maher J, Schlabritz-Loutsevitch N. Maternal obesity is associated with altered cardiovascular remodeling during pregnancy. Gender-Specific Medicine & Women's Health Symposium, Seventh Annual, Presented by The Laura W. Bush Institute for Women's Health & The Office of the Provost, TTUHSC, October 2018, Lubbock, TX.

Shriver J, Mungara S, Grundstrom M, Bilgrami M, Dijeh C. EMR documentation of HPV vaccine refusal by primary care physicians at TTUHSC Permian Basin. Texas Tech University Health Sciences Center, Permian Basin Student Research Day, May 10, 2019, Odessa, TX.

Shreyder K, Carrillo M, Maher J, Schlabritz-Lutsevich N. Serum leptin and TNF $\alpha$  levels in relations to systolic and diastolic heart function in obese and normal-overweight pregnant. First trimester data. Gender-Specific Medicine & Women's Health Symposium, Seventh Annual, Presented by The Laura W. Bush Institute for Women's Health & The Office of the Provost, TTUHSC, October 2018, Lubbock, TX.



Sneed Z, Prabhu F, Bennett K, Wichmann A. Methamphetamine epidemiology at an inter-professional clinic. 2018 Endowed Lecture Series, Texas Tech University Health Sciences Center, September 13, 2018, Lubbock, TX.

Stanley R, Erickstad R, deRiese C. Investigating oral agents for visualization of ureteral jets during cystoscopy. Annual Meeting, American Urological Association (AUA), Chicago, IL, May 2019 *and* Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Stanley R, Penrose L, Sizer P, Rong Y. Soft tissue mobilization for lumbopelvic pain in the third trimester of pregnancy. Gender-Specific Medicine & Women's Health Symposium, Seventh Annual, Presented by The Laura W. Bush Institute for Women's Health & The Office of the Provost, TTUHSC, Lubbock, TX, October 2018 *and* American Urogynecologic Society (AUGS) paper.1786\_handout\_38pdf. <https://aug.s.digitellinc.com/augs/sessions/5182/view>, October 9-13, 2018, Chicago, IL.

Stewart C, Edwards D. Diabetes distress and socioeconomic factors: A cross sectional survey in West Texas. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

Suravajjala D, Agusala V, Agusala V, Vij P, Clapp M, Kola B. Gender differences in breast feeding education: A retrospective study in West Texas. Gender-Specific Medicine & Women's Health Symposium, Seventh Annual, Presented by The Laura W. Bush Institute for Women's Health & The Office of the Provost, TTUHSC, October 2018, Lubbock, TX,

VanSickle A. Facilitating speech production for individuals with acquired apraxia of speech using sentence completion. American Speech, Language, Hearing Association Annual Convention, November 15-17, 2018, Boston, MA.

Wagner C, Hess A, Olascoaga J, Van Spronsen N, Griswold J. Clinical case series evaluating tunneled central venous catheterization in pediatric burn patients. North Texas Chapter ACS Meeting, February 22-23, 2019, Dallas, TX.

Walterscheid B, Behrens E, Boothe W, D'Silva N, Watkins B, Tarbox M. SOX-10 staining in dermal scars. Texas Tech University Health Sciences Center, Student Research Week, March 19-22, 2019, Lubbock, TX.

West A, Platner L, Flores G, Selvan V, Lopez-Alvarenga J, Moses S, Schlabritz-Lutsevich N, Brown E. Measurement of changes in student attitude, self-efficacy, & intent after participation in an abbreviated abstinence-plus sex education curriculum. Texas Tech University Health Sciences Center, Permian Basin Student Research Day, May 10, 2019, Odessa, TX.

**B. CRI Advisory Committee Members**

Alyce Ashcraft, PhD, RN, CNE, FNGNA, ANEF, School of Nursing

Steven L Berk, MD, Provost and Dean, School of Medicine

Carol Boswell, EdD, RN, CNE, ANEF, FAAN, School of Nursing, Permian Basin Campus

Sharon Decker, RN, PhD, ANEF, FAAN, F Marie Hall *SimLife* Center

Sharmila Dissanaiké, MD, School of Medicine

Ron Hall II, PharmD, MSCS, School of Pharmacy, Dallas Campus

Catherine Lovett, MSN, RN, Managing Director, CRI

Tedd L Mitchell, MD, President

Alan Peiris, MD, PhD, FRCP (London) Executive Director, CRI

Natalia Schlabritz-Lutsevich, MD, PhD/Lavi Oud, MD, School of Medicine, Permian Basin  
Campus

Phil Sizer, Jr. PT, PhD, School of Health Professions

Tom Tenner, Jr., PhD, Assistant Director, CRI

### **C. Clinical Research Institute Team**

#### **Lubbock:**

Mhd Hasan Almekdash, MA, MS, PhD, Director of Biostatistical Services/Senior Biostatistician

Staci Brown, Administrative Assistant

Deborah Conn, BSN, RN, CCRC, CCRA, Monitor

Kelsey Jendrzey, MSHA, CCRC, Clinical Research Coordinator

Ami Knox, MBA, Clinical Research Coordinator

Rohali Keesari, MPH, PharmD, Biostatistician

Eneko Larumbe, PhD, Biostatistician

Catherine J. Lovett, MSN, RN, CCRC, CCRP, Managing Director

Josie Martinez, BSOE, Section Manager

Alan N. Peiris, MD, PhD, FRCP (London), Executive Director

Rene Resendez, MA, CCRP, Regulatory Specialist

Amanda Romero, MS, RN, CCRC, Clinical Research Coordinator

Chris Scott Johnson, MSN, RNC, CCRC, CA/CP, SANE, Clinical Research Coordinator

Thomas Tenner, Jr, PhD, Assistant Director

Sarah Wood, LVN, Clinical Research Coordinator

#### **Permian Basin**

Jammie Holland, LVN, CCRC, Clinical Research Coordinator

Ailena Mulkey, RN, CCRC, Clinical Research Coordinator

Evangelina Santiago, LVN, CCRC, Clinical Research Coordinator

**D. Clinical Research Institute Monthly Research Workshop**

<b>Dates</b>	<b>Speaker(s)</b>	<b>Title</b>
September 19, 2018	Dr. Betsy Jones, Dept of Medical Education	Turning Your Teaching Into Scholarship: MedEdPortal and Other Peer-Reviewed Digital Resource Libraries
October 17, 2018	Dr. Alyce Ashcraft, School of Nursing	Predatory Publications
November 28, 2018	TTU College of Engineering-Jnev Biros, MD	Collaborating with Engineers in Medicine
December 19, 2018	Chip Shaw	Large data
January 16, 2019	Simon Williams, PhD and Brian Pomeroy, MD	Educational Research

**E. Society of Clinical Research Associates (SoCRA) Meetings**

<b>Date</b>	<b>Speaker</b>	<b>Title</b>
January 25, 2019	Rohali Keesari, MPH, PharmD	Common statistical pitfalls at various stages of Clinical Research
February 22, 2019	Beth Taraban, Assistant VP Research Integrity and Kathy Thomas, IRB Director	Revised Common Rule: Why are they '2018 Requirements' when it's already 2019? And other mysteries.
March 29, 2019	Thomas McGovern, PhD	Ethics & Clinical Research, a Conversation
May 21, 2019	Margaret Vugrin, MSLS, AHIP, MPH, MPA	What a Proper Literature Review Entails
June 21, 2019	Margaret Vugrin, MSLS, AHIP, MPH, MPA	Manuscript's Literature Reviews: Special considerations