



2023 ANNUAL REPORT

CLINICAL RESEARCH
SIMPLIFIED

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EXECUTIVE DIRECTOR'S STRATEGIC PLAN

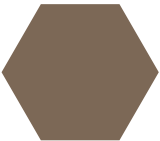


FY23 was another successful research year for the CRI. Our division of biostatistics continues to grow. Abdul Awal was added as a full-time member to help Dr. Stroeever, our director. We continue to engage several PRN PhD's, with bio stats expertise, to help us with the volume. We will be pursuing additional full-time staff in FY 24 to help with this critical and rapidly expanding part of research support.

Soon the DEEP6 AI program will be up and running. This program will help with searching the Electronic Medical Records (EMR) for patients that might become potential participants in prospective clinical research projects. This will help in determining if a project is able to be accomplished based on the number of patients found with a particular disease or injury; help compete for industry-sponsored multi-center trials; and ensure successful completion of investigator-initiated prospective research projects. DEEP6 AI will also help support patient-related quality improvement and Performance Improvement Patient Safety (PIPS) assessment and oversight for our entire Health Sciences Center.

REDCap, a secure web application, should be available soon for reliable, accurate data entry and data security. This has been a long process and we appreciate the Office of Research and Innovation, HSC IT department, and Dr. Christine Garner in Amarillo for their persistence in getting all the "kinks" worked out.

The CRI has been able to adjust salary support on both the Lubbock and Odessa campuses for our research coordinators and nurses,



allowing us to be competitive, attracting RNs, their training so important to the care safety of our research participants. I'm happy to report this has allowed us to successfully hire two new RNs to our busy coordinator pool. A salary increase has also occurred for our regulatory group, so important for IRB submission work and project administrative oversight.

You will see in this report that the CRI has broadened our efforts on research education to faculty and trainees. Besides basic “nuts and bolts” education support for individual projects, I feel research education is one of the most important missions of the CRI. Thanks to Dr. Stroeve, our education efforts have exploded. We are excited to be partnering with the School of Medicine, Office of Faculty Development in FY24 presenting programs on Responsibilities as a PI for Industry Sponsored Studies and Understanding the Complexity of and Steps for Doing a Meta-Analysis/Systematic Review.

You will find in this report memorials to Dr. Gary Ventolini and to Dr. Steven Berk. The CRI was a creation by Dr. Berk and we owe so much to him and his legacy. He will be a part of us every day as we support the scholarly mission of growing clinical research.

Finally, our work with UMC Cancer Center continues. With the new cancer center building groundbreaking to begin soon, we are working with UMC and HSC to increase clinical research in all areas of adult and pediatric cancer.

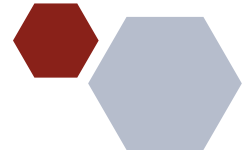
We look forward to FY 24 with energy and excitement.

Every bedside patient encounter is an opportunity to improve care through clinical research.

John Griswold, MD, FACS



SUMMARY



2023 saw the CRI experience a decrease of 7.41% in work orders requesting support on clinical projects (243 vs 225). Work orders for SON increased from 2 last FY to 8. Work orders for the UMC Magnet program also increased from 2 to 11 this FY. While the CRI continues to provide support for IRB preparation and submission of new and ongoing projects, the CRI workflow was disrupted with the switch from iRIS to Cayuse making July and August a struggle. The IRB system transitioned from iRIS to Cayuse on June 30, 2023 until September 8, 2023. This resulted in only specific submissions being allowed during these months, all other submissions were placed on hold.

In FY23 the CRI submitted 807 forms to the IRB; 129 of these were initial submissions of new studies; 351 were amendments; 132 were unanticipated events; 95 were submission responses; and the remaining were monitoring forms, study closures, study cancelation forms, and continuing reviews. The percentage of new studies approved by the IRB on first submission increased from 55% to 61.2%. FY23 demonstrated a 128% increase in the number of new investigators for which the CRI has worked; 28 in FY22 to 68 for FY23. Additionally, statistical analysis & reporting is up from 32 in FY22 to 115 in FY23; research presentations on projects CRI facilitated went from 36 to 88 and CRI educational presentations are up 716.7% from 6 to 49; PubMed indexed abstracts and manuscripts are also significantly increased this FY. This success is attributed to improved staffing with the hiring of Dr. Stephanie Stroever, our Director, Division of Biostatistics and her partner, Abdul Awal, MS, Biostatistician. See also Table 1.

The CRI's research volunteer database established in 2011 to allow the general public to independently sign up to be contacted about possible clinical research participation continues to grow, up 11.82% to 700 volunteers this fiscal year. This database is queried periodically to help recruitment efforts for CRI-facilitated projects.

With the support and approval of TTUHSC Executive Leadership, CRI successfully implemented a Clinical Research Nurse job class for TTUHSC along with a new salary structure for CRI Clinical Research Nurses and the Clinical Research Coordinators. Other salaries were also addressed among the staff to encourage retention and avoid salary compression.



Grant support is a relatively new area of clinical research support for the CRI. CRI participated in 19 grants submitted through the Office of Sponsored Programs in FY23. Types of grants include clinical trials, biobanks, and registries. Participation included providing proposal review, statistical design, conduct of pilot studies to provide supporting data for the grant, and study support for funded grants, biostats support, and/or IRB work. Four of the submissions have been funded (NIH, Private, and Foundation), totaling \$993,462.00; 10 are pending a response from the funding agency.

FY23 HIGHLIGHTS

Achievements

- The CRI, in collaboration with the Office of Research, successfully acquired the Deep 6 AI software for TTUHSC/UMC's Cerner EMR.
- The CRI worked with the Office of Research to facilitate the acquisition of the RedCap system for data collection and storage.
- CRI held three retreats. The retreats help foster team building and inform staff of upcoming events and research studies in the pipeline.
- Implementation of a new salary structure to facilitate recruitment and retention
- Creation of a TTUHSC Clinical Research Nurse job class
- CRI welcomed three new staff members



Abdul Awal, BSC, MSC, MS,
Biostatistician



Eric Soto, BS,
Regulatory Specialist



Destiny Carr, BSN, RN, Clinical Research Nurse

Accolades



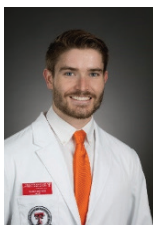
2022 CRI Staff Excellence Award

The 2022 CRI Staff Excellence Award was presented to Josie Martinez, Clinical Department Administrator. She was nominated by her peers for this award.



2023 TTUHSC Quality Supervisor Award

This distinguishing award was presented to Catherine Lovett, MSN, RN, CCRC, CCRP, Managing Director on August 24, 2023, for her significant contribution to TTUHSC and mentorship role to staff in the CRI.



2023 Lorenz O. Lutherer, MD, PhD, Clinical Research Award

Medical student Brandon Couch, BS won the 2023 Lorenz O. Lutherer, MD, Ph.D., Clinical Research Award for his work on “Effects of Donor Site Regenerative Epidermal Suspension Use on Healing Time, Pain, and Scarring Outcomes”. The project was awarded during the 35th Annual Student Research Week, which was held from February 28 to March 3, 2023.

Challenges

- Retirement of Dr. Thomas E. Tenner, CRI Assistant Director in May 2023.
- The sudden death of Dr. Steven L. Berk, Executive Vice President for Clinical Affairs (see page 15)
- The passing of Dr. Gary Ventolini, Professor and previous Regional Dean, School of Medicine on the Permian Basin Campus (see page 16)
- The transition from the iRIS system to Cayuse for the institutional review board process
- Staff recruitment and retention for our Regulatory Specialist positions and difficulty in recruiting research nurses.



MAJOR AREAS OF CLINICAL RESEARCH SUPPORT BY THE CRI FY 22 VS FY23:

The CRI continues to meet its objective of facilitating clinical research activities at TTUHSC. The activities of the CRI during FY23 as compared to FY22 are summarized in the following tables/graphs:

TABLE 1. SUMMARY	FY22	FY23	% CHANGE
**NEW CLINICAL RESEARCH STUDIES TO IRB	219	129	-41.09
NOVICE INVESTIGATORS	28	64	128.60
**FORMS SUBMITTED TO IRB	1295	807	-37.68
PROTOCOL REVIEWS	405	309	-23.70
SCIENTIFIC & STATISTICAL ANALYSIS DESIGN	98	122	24.48
STATISTICAL ANALYSIS & REPORTING	32	115	259.37
*ABSTRACTS PRESENTED	14	17	21.42
% ABSTRACT PRESENTED - PUBMED INDEXED	0%	47.06%	
*RESEARCH PRESENTATIONS	36	88	144.44
*PUBLISHED MANUSCRIPTS	24	28	16.66
% PUBLISHED MANUSCRIPTS - PUBMED INDEXED	9.09%	75%	725.08
EDUCATION PRESENTATIONS BY CRI	6	49	716.70
TOTAL STUDIES CLOSED/CANCELED	17	17	0
TOTAL STUDIES COMPLETED	41	24	-41.50

*NUMBER IS DEPENDENT UPON THE CRI BEING NOTIFIED OF THE ABSTRACT, PRESENTATION, AND PUBLICATION

**IRB SYSTEM TRANSITIONED FROM IRIS TO CAYUSE ON JUNE 30, 2023, UNTIL SEPTEMBER 8, 2023. THIS RESULTED IN ONLY SPECIFIC SUBMISSIONS BEING ALLOWED DURING THESE MONTHS, ALL OTHER SUBMISSIONS WERE PLACED ON HOLD.

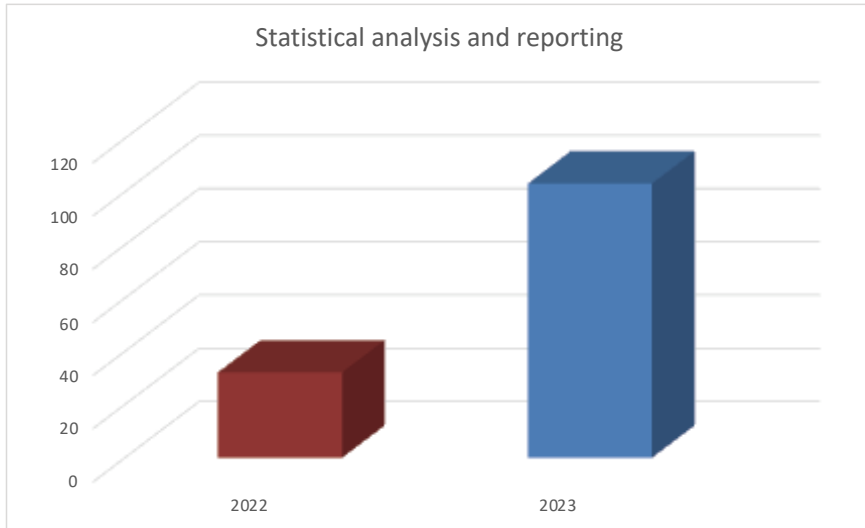


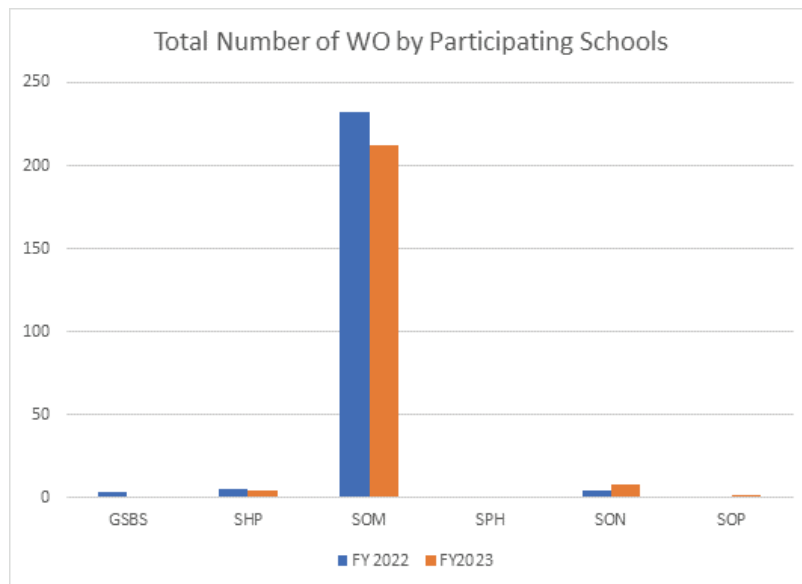
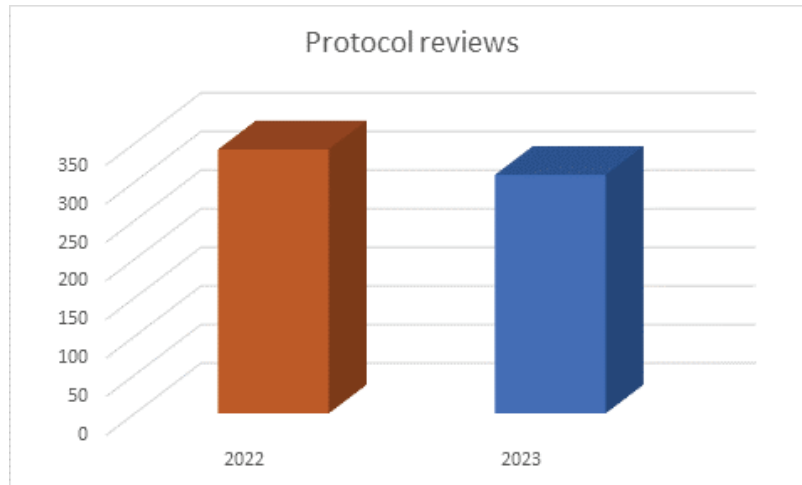
TABLE 2. FY23 APPROVED WORK ORDERS BY CAMPUS

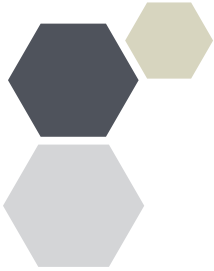
School	Lubbock		Odessa		Amarillo		Dallas		Abilene		Total # of WO by School		% of Total WO for each School	
	FY22	FY23	FY22	FY23	FY22	FY23	FY22	FY23	FY22	FY23	FY22	FY23	FY22	FY23
SOM	221	178	13	11	0	7	N/A	N/A	N/A	N/A	234	196	96.29%	87.11
SON	2	8	0	0	0	0	0	0	0	0	2	8	0.82%	3.55
SOHP	5	4	0	0	0	0	N/A	N/A	0	0	5	4	2.05%	1.77
SOP	0	0	N/A	N/A	0	1	0	0	0	0	0	1	0%	0.44
*GSBS	0	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	5	0%	0
Public Health	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	0	NA	0
UMC Nursing Research/Magnet	2	11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	11	0.82%	4.88
TOTAL WO/by Campus	230	206	13	11	0	8	0	0	0	0	243	225		

*FY22 PUBLIC HEALTH WAS A DEPARTMENT IN GSBS

N/A INDICATES THE SCHOOL DOES NOT HAVE A PRESENCE ON THAT CAMPUS.







FUNDING

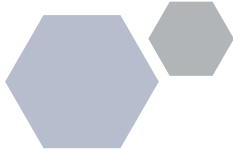
Primary funding for the CRI in FY23 came from Dr. Steven L. Berk, Dean and Executive Vice President for Clinical Affairs, through the TTUHSC School of Medicine Office of the Dean. The School of Medicine medical practice income plan (MPIP) and clinical departments in Lubbock provide additional funding support. The Department of Psychiatry, through Senate Bill 11, provides CRI with funding assistance; and CRI residual funds from previous industry-sponsored research are also used. Moreover, the Dean of the School of Pharmacy contributes to the CRI overhead, along with a contractual arrangement between the CRI and the University Medical Center in Lubbock for the conduct of cancer studies. In the Permian Basin the School of Medicine Regional Dean's Fund, monies chiefly generated by the CMS uncompensated care program, finance much of the budget support for the Odessa CRI office.

MEMBERS OF THE CRI ADVISORY COMMITTEE

All faculty and trainees at TTUHSC are considered customers of the CRI. The Clinical Research Institute is governed by an Advisory Committee that met five times during FY23. It is composed of faculty representatives from all schools and campuses, the TTUHSC President and Vice President for Clinical Affairs, the Senior Vice President for Research and Innovation, and the Executive Leadership team made up of the two Directors of the CRI: Executive Director John Griswold, MD, and Catherine Lovett, MSN, RN, Managing Director. The full list of FY23 CRI Advisory Committee members is provided in Appendix A.

CRI has 12 clinical research coordinator (CRC)/clinical research nurse (CRN) positions: 9 are located in Lubbock and three are on the Permian Basin Campus. A Director for Regulatory Services/Monitor, a Director of Clinical Research Operations/CRN, a Section Manager/CRC for Regulatory Services, a Section Manager/CRC for Cancer Services, two regulatory specialists for submissions to the IRB, a Clinical Department Administrator, and an administrative assistant. CRI currently has two clinical research nurse positions and one regulatory specialist position vacant. In addition to Stephanie Stroeve, PhD, our Division of Biostatistics director, and Abdul Awal, BSC, MSC, MS biostatistician, we currently have two PRN/as-needed statisticians: Milan Bimali, Ph.D., and Aya Bou Fakhreddine, MS. The full list of FY23 CRI staff members is provided in Appendix B.





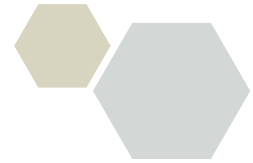
EDUCATION

Cathy Lovett, MSN, RN remains the Chairperson of the West Texas Chapter for the Society of Clinical Research Associates (SoCRA). Ms. Lovett and Dr. Stroever were both on the Distinction in Medical Research program admissions committee; Ms. Lovett was a 2023 SON Student Research Week judge. Further, leadership from CRI presents at New Faculty Orientation routinely. The CRI helped students in the 2023 Medical Student Summer Research Program navigate clinical research protocol design, IRB submission, and data analysis.

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. 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.

Presentations:

The CRI topics included but are not limited to the Faculty Development: Clinical/ Translational Research Series, Medical Student Summer Research Program Orientation, P3 small groups, Medical Students year II, III, IV statistical sessions, Medical Students III EBM small groups, and various departmental research conferences.



DIRECT ASSISTANCE WITH THE STUDIES

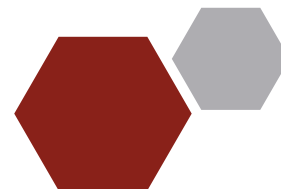
CRI personnel work with the investigators and trainees during each phase of a proposed study.

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, objectives, 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 IRB application, and subsequent amendments/reports to the IRB.
3. After IRB approval, the research coordinators and nurses 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.

Currently, 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.

IN MEMORIAL

Steven L. Berk, MD
March 12, 1949 – May 26, 2023



Dr. Steven L. Berk, TTUHSC School of Medicine Dean, a dedicated physician, esteemed educator, and visionary leader, passed away earlier this year.

Dr. Berk was a revered figure in the community, known for his leadership and lasting contributions at the TTUHSC School of Medicine. He created the Family Medicine Accelerated Track (FMAT) program to address primary care shortages. This was the first program of its kind in the nation. He was vital in introducing medical research and establishing the university's Clinical Research Institute, significantly increasing the number of published clinical papers by faculty. Finally, his dedication to students and research led to his launch of the medical summer research program, having more than 100 students participate annually.

Dr. Berk graduated from Brandeis University in 1971, Boston University School of Medicine in 1975 and completed his medical and infectious disease training at Boston City Hospital.

In 1979, he joined East Tennessee State University in Johnson City to help establish the Quillen College of Medicine. He played a crucial role in its creation, dedicating each year to working with students, residents, and fellows. Dr. Berk earned a respected reputation as a skilled clinician and educator, becoming a prominent authority in HIV/AIDS care and appointed Chair of the Department of Internal Medicine in 1988.

In 1999, he left the Tennessee mountains to join the faculty of Texas Tech University Health Sciences Center. He served as the Regional Dean for the Amarillo campus before becoming the Dean of the School of Medicine in 2006 in Lubbock, TX; becoming the longest-standing dean for TTUHSC. In 2010 he added executive vice president and provost to his already distinguished CV.

Throughout his career, Dr. Berk made valuable contributions to the medical community including over 150 publications, 4 textbooks, 3 Board certifications, and several active society memberships (Phi Beta Kappa, Gold Humanism, Alpha Omega Alpha). His numerous accolades and teaching awards were a testament to his unwavering dedication to educating future generations of physicians, a role that brought him immense pride and satisfaction. His literary endeavors also included his memoir, *Anatomy of a Kidnapping*, which recounts his 2012 abduction as well as a historical fiction novel, *In Search of the Animalcule*, exploring the story of the discovery of bacteria.

Dr. Berk was a kind, thoughtful individual and insightful leader. His support of the Clinical Research Institute was unwavering and endless. He will be greatly missed.



IN MEMORIAL

Gary Ventolini, MD
September 26, 1953-June 20, 2023



Dr. Gary Ventolini, aged 69, passed away peacefully on June 20, 2023, after a courageous battle with cancer. Over the past twelve years, he dedicated his professional life to Texas Tech University Health Sciences Center as the Permian Basin School of Medicine Regional Dean and as a physician. He was a loving husband, devoted father, world-renowned physician, and a compassionate friend to all who knew him.

Gary was born on September 26, 1953, in Lima, Peru. In 1975, he graduated from Padova University in Italy with a degree in Medicine. It was during his time in Italy that he met and married his beloved wife of 45 years, Doris Ventolini. The couple went on to have two beautiful daughters, Tania and Barbara. Gary was a Godly man who dedicated the majority of his life to medical research; he was a world expert on vulvovaginitis and vulvodinia. He was also an author, not just of medical literature (which he had many), but also of a period book, "Art within the Keys of the Renaissance." He devoted his time and talents to the Midland, Odessa, and Lubbock communities.

Gary loved traveling, attending medical conferences, and indulging in culinary delights from around the world. To his family and friends, he will always be remembered as a hardworking, intelligent, and compassionate individual. Gary's indomitable spirit, kindness, and love for his family will be deeply missed.

APPENDIX A

CRI ADVISORY COMMITTEE MEMBERS

ALYCE ASHCRAFT, PHD, RN, CNE, FNGNA, ANEF, SCHOOL OF NURSING

STEVEN BERK, MD, EXECUTIVE VICE PRESIDENT FOR CLINICAL AFFAIRS

JOHN GRISWOLD, MD, FACS, EXECUTIVE DIRECTOR, CRI

RONALD HALL, PHARM.D, MSCS, SCHOOL OF PHARMACY, DALLAS CAMPUS

TROY HOOPER, PT, LAT, ATC, PHD, SCHOOL OF HEALTH PROFESSIONS

CATHERINE LOVETT, MSN, RN, CCRC, CCRP, MANAGING DIRECTOR, CRI

LANCE MCMAHON, PHD, SENIOR VICE PRESIDENT, OFFICE OF RESEARCH AND INNOVATION

LAVI OUD, MD, SCHOOL OF MEDICINE, PERMIAN BASIN CAMPUS

LORI RICE-SPEARMAN, PHD, PRESIDENT

LESLIE SHEN, PHD, CCRP, SCHOOL OF MEDICINE

PHIL SIZER, JR., PHD, ASSOCIATE VICE PRESIDENT FOR RESEARCH INNOVATION

THOMAS E. TENNER, JR. PHD, ASSISTANT DIRECTOR, CRI

GARY VENTOLINI, MD, SCHOOL OF MEDICINE, PERMIAN BASIN CAMPUS





APPENDIX B

CRI TEAM

Lubbock

ABDUL AWAL, BSC, MSC, MS, BIOSTATISTICIAN

MILAN BIMALI, PHD, PRN BIOSTATISTICIAN

AYA BOU FAKHREDDINE, MS, PRN BIOSTATISTICIAN

STACI BROWN, ADMINISTRATIVE ASSISTANT

WILLIAM “BEN” BRUGMANN, PHD, CCRC, CLINICAL RESEARCH COORDINATOR

DESTINY CARR, BSN, RN, CLINICAL RESEARCH NURSE

MARIANA FIORI, PHD, CCRC, SECTION MANAGER, CANCER STUDIES/CLINICAL RESEARCH COORDINATOR

JOHN GRISWOLD, MD, FACS, CPI, EXECUTIVE DIRECTOR

NADIA JIMENEZ, BS, CLINICAL RESEARCH COORDINATOR

VICTORIA JOHNSON, MPH, BS, CCRC, CLINICAL RESEARCH COORDINATOR

RYLEE LAW, LVN, BS, CCRC, SECTION MANAGER, REGULATORY AFFAIRS/CLINICAL RESEARCH COORDINATOR

CATHERINE J. LOVETT, MSN, RN, CCRC, CCRP, MANAGING DIRECTOR

JOSIE MARTINEZ, CLINICAL DEPARTMENT ADMINISTRATOR

AMANDA ROMERO, MS, RN, CCRC, DIRECTOR OF REGULATORY AFFAIRS/MONITOR

CHRIS SCOTT JOHNSON, MSN, RNC, CCRC, CA/CP, SANE, DIRECTOR OF CLINICAL RESEARCH OPERATIONS/CLINICAL RESEARCH NURSE

ERIC SOTO, BS, REGULATORY SPECIALIST

STEPHANIE STROEVER, PHD, DIRECTOR, DIVISION OF BIOSTATISTICS

THOMAS E. TENNER, JR. PHD, ASSISTANT DIRECTOR

BAILEY WHEELER, BS, REGULATORY SPECIALIST

LANE YOUNG, BA, CCRC, CLINICAL RESEARCH COORDINATOR

Permian Basin

JAMMIE HOLLAND, LVN, CCRC | CLINICAL RESEARCH COORDINATOR

EVANGELINA SANTIAGO, LVN, CCRC | CLINICAL RESEARCH COORDINATOR

APPENDIX C

DISSEMINATION OF RESEARCH RESULTS

Abstracts (17) * PubMed (8)

Beitsch P, Pellicane J, Pusztai L, Baron P, Cobain E, Murray M, Ashikari A, Kelemen P, Mislowsky A, Barone J, Cowan K, Rahman R, Dooley W, Menicucci A, Finn C, Audeh M, Whitworth P. MammaPrint index as a predictive biomarker for neoadjuvant chemotherapy response and outcome in patients with HR HER2 breast cancer in NBRST. *Journal of Clinical Oncology* 41, no. 16_suppl (June 01, 2023) 521-521, doi: 10.1200/JCO.2023.41.16_suppl.521.

Bharathidasan K, Rehman S, Saowapa S, Tran V, Stroever S. Compliance with lung cancer screening guidelines among at-risk patients at a Rural Teaching Hospital in West Texas. September 9, 2023 IASLC 2023 World Conference on Lung Cancer, Singapore (WCLC 2023)

*Boeger B, Galvan B, Shrestha K, Santos A, Santana D. Impact of COVID-19 pandemic at a Level 1 Trauma Center, Surgery in Practices and Science and 18th Annual Academic Surgical Congress, AUS/AAS, doi:10.1016/j.sipas.2023.100189, PMID: 37333994

*Collins RA, John A, Daniel H, Garza J, Nagy L, Jacob R. Association of cerebellar tonsil dynamic motion and outcomes in pediatric chiari I malformation. *World Neurosurg* 2022 Dec;168: e518-e529. doi: 10.1016/j.wneu.2022.10.013. Epub 2022 Oct 10, PMID: 36228929

*Coppedge N, Garza J, Gandhi K, Sanchez A, Galloway J, Ventolini G. Lactobacillus microbiota of the female genital tract in vaginal lactobacillosis. *Arch Gynecol Obstet.* 2023 May;307(5):1319-1322. doi:10.1007/s00404-023-06988-9, PMID: 36869938

*Credo R, Brown E, Dhaiti C, Pang A, Bharadia D, Griswold J. Earlier graft takedown using autologous keratinocyte suspension in conjunction with split thickness skin grafting for the treatment of deep 2nd and 3rd degree burns. American Burn Association National Conference. *J Burn Care Res.* 2023 May-Jun; 44(Suppl 2): S81; doi: 10.1093/jbcr/irad045.104, PMCID: PMC10185248

Hughes JL, Chapman M, Wakefield S, Baker J, Hochstetler S, Axelson D. Statewide initiative to address youth suicide prevention. American Academy of Child and Adolescent Psychiatry Annual Meeting 2023, American Academy of Child and Adolescent Psychiatry, October 2023, Volume 62, Issue 10, Supplement, S1-S428, New York, NY

*Moon A, Andikyan V, Agarwal R, Stroever S, Misita D, Laibangyang A, Doo D, Chuang L. Incisional infiltration versus transversus abdominis plane block of liposomal bupivacaine after midline vertical laparotomy for suspected gynecologic malignancy. *Gynecologic Oncology Reports*, 2023-06-01, Volume 47, Article 101203, PMID: 37251783

O'Shaughnessy J, Kaklamani V, Yuan Y, Barone J, Diab S, Crozier J, Whitworth P, Tedesco K, Maganini R, Rahman R, Encarnacion C, Haan J, Truitt A, Menicucci A, Audeh W. Molecular profiles of genomically high risk ER HER2 breast cancer tumors classified as functionally basal or luminal B by the 80 gene signature. *Journal of Clinical Oncology* 39, no. 15_suppl (May 20, 2021) 563-563. doi: 10.1200/JCO.2021.39.15_suppl.563

*Pederson A, Iweh M, Santineau K, Cole T, Freedman K, Ray C. Patient's perceptions of importance of discontinuing antithrombotic medication before oculoplastic surgery. *J Craniofac Surg* 2023 Sep1;34(6):1837-1840. doi: 10.1097/SCS.0000000000009488. Epub 2023 Jun 16, PMID: 37322583

*Pore A, Dhanasekara C, Navaid H, Vanapalli S, Rahman R. Comprehensive profiling of cancer associated cells in the blood of breast cancer patients undergoing neoadjuvant chemotherapy to predict pathological complete response. *Bioengineering (Basel)* 2023 Apr 18;10(4): 485. doi: 10.3390/bioengineering10040485, PMID: 37106672

*Pore A, Bithi S, Zeinali M, Navaid H, Nagrath S, Rahman R, Vanapalli S. Phenotyping of rare circulating cells in the blood of non-metastatic breast cancer patients using microfluidic labyrinth technology. *AIP Publishing Biomicrofluidics*, Vol 16, Issue 6. <https://doi.org/10.1063/5.0129602>, PMID: 36536791

Rangaswamy B. Radiology teaching rounds in internal medicine clerkship- Taking students to the reading room. *Society of General Internal Medicine*, November 11, 2023, ScholarOne Abstracts

Rangaswamy B. Study habits in internal medicine clerkship and a longitudinal study plan to improve SHELF exam score. *Society of General Internal Medicine* November 11, 2023, ScholarOne Abstracts

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Presentations (88)

Adams E, Adu Y, Tesfaye M, Agyare K, Johnston R, Pang A. The correlation between mallampati score and thyromental submental distance with increased rates of re-intubation. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Agyare K, Adu Y, Erabti S, Aickareth G, Rutayomba E, Johnston R, Pang A. A retrospective study evaluating the risk factors associated with unexpected ICU and hospital admissions following elective surgeries. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Aickareth G, Pang A, Griswold J. Can TPN on burn patients be considered again? A case report. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Bandaru V, Trinh K, Douglas B, Youssi B, Goodfellow T, Shaw C, Pang A, Griswold J. Comparative fluid resuscitation in dobutamine patients within the first 48 hours. North and South Texas Chapters of the American College of Surgeons, February 2023, Austin, TX

Bandaru V, Youssi B, Rossini A, Abla H, Glover R, White A, Lowry C, Cole T, Shaw C, Pang A, Griswold J. Fluid resuscitation for burn patients based on anatomical region. North and South Texas Chapters of the American College of Surgeons, February 2023, Austin, TX

Bandaru V, Youssi B, Morgan R, Nguyen K, Liu X, Chaudhury T, Gani Z, Shaw C, Pang A, Griswold J. Second-degree v. third-degree burn differences in length of stay. North and South Texas Chapters of the American College of Surgeons, February 2023, Austin, TX

Bandaru V, Trinh K, Douglas B, Youssi B, Goodfellow T, Shaw C, Pang A, Griswold J. Comparative fluid resuscitation in dobutamine patients within the first 48 hours. North American Burn Society, March 2023, Mammoth Mountain, CA

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Bandaru V, Youssi B, Bettarelli D, Trinh K, Chapina A, Shaw C, Pang A, Griswold J. Differences in large burn patients with chronic hypertension for urine output and mortality. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Bandaru V, Youssi B, Pendse R, Wagnon C, Meers K, Tran V, Irish L, Shaw C, Pang A, Griswold J. Frequency of mental health issues, self-harm, and suicidal ideation in self-inflicted burn patients. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

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Basu T, Morton H, Culberson J, Malhotra K, Orlov E, Bose C, Gittner L, Khan H, Reddy H. Lifestyle and biological factors in cognitively healthy superior agers in rural West Texas. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

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Bettarelli D, Siddiqui K, Bandaru B, Cole T, Shaw, Pang A, Bharadia D, Griswold J. Implementation of a checklist in burn surgery: Usage improves operation efficiency and patient outcomes. North and South Texas Chapters of the American College of Surgeons, February 2023, Austin, TX

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Bingi P, Krabacher J, Thompson L, Kasemsri T, Pang A, Griswold J. Effectiveness of precedex on hypermetabolic demand in burn patients. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Bingi S, Vojtkofsky N, Azzam S, Clark J, Pang A, Griswold J. Analyzing the relationship between administration of postoperative antibiotics a graft outcome in a burn center. Texas Tech University Health Sciences Center, BCoRE Symposium, Texas Tech Department of Surgery, April 14, 2023, Lubbock, TX

Bradshaw E, Garcia L, Anding C, Hecox E, Pang A, Griswold J, Bharadia D. Geographic effects of rural burn care follow up during the COVID 19 pandemic. American Burn Association Annual Meeting in May 2023, Dallas, TX

Brister R, Tapp R. Implications of laterality in electrical path and correlation to cardiac injuries. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Brown K, Baronia R, Dhanasekara S, Wakefield S. Impact of parent involvement in therapy on parent-child reporting of depression and suicidality. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Brucoliere A, Boeger B, Pang A, Credo R, Tran V, Griswold J. The added effect, injuries, and complications of blast injuries among burn patients on resuscitation and outcomes. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

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Cavdar I, Samanta A, Park A, Santineau K, Nguyen D, Ray C, Porter M, Reppa C. Home oriented visual acuity trail. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Chaudhury T, Bandaru V, Wilemon J, Chaudhury H, Raghuram A, Siddiqu K, Jilani T, Shaw C, Pang A, Griswold J. Retrospective study analyzing a relationship between natural light fenestration and skin graft reuptake in burn patients. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Cole J, Pang A, Reedy M, Richmond R. Case Report: Bevacizumab induced vaginal cervical avulsion 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Collins A, Kahathuduwa C, Baronia R, Ibrahim Y. Positive psychological factors and their correlation to depression and anxiety symptoms among medical students. Association for Academic Psychiatry Annual Meeting 2022, Association for Academic Psychiatry, September 2022, Denver CO

Collins A, Kahathuduwa C, Baronia R, Ibrahim Y. The role of positive psychological factors in academic performance among medical students. Association for Academic Psychiatry Annual Meeting 2022, Association for Academic Psychiatry, September 2022, Denver CO

Credo R, Corbitt S, Wall J, Brown E, Abidi H, Onuoha M, Huynh J, Shaw C, Pang A, Bharadia D, Griswold J, Fluid resuscitation in burn patients: A retrospective analysis on methamphetamine's role in fluid extravasation. Texas American College of Surgeons Joint Annual Meeting 2023, February 2023, Austin, TX

Credo R, Brown E, Seyan Z, Rutayomba E, Prosser T, Pang A, Bharadia D, Griswold J. Investigation of operating time with autologous skin cell suspension on burn patients. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Dai J, Farooqi A, Penrose L, Prien S. Determination if the DISC collection device significantly reduces human sperm DNA damage and the importance of a media component in the process. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Davis B, Pang A, Griswold J. Direct thermal inhalation injury in a burn patient: A case study. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Dhaiti C, Brown E, Pang A, Raghuram A, Bharadia D, Griswold J. Earlier graft takedown using autologous keratinocyte suspension in the conjunction with split thickness skin grafting for the treatment of deep 2nd and 3rd degree burns. North and South Texas Chapters of the American College of Surgeons, February 2023, Austin, TX

Dhanasekara S, Marschke B, Ko A, Campion E, Wood FC, Ng G, Herrold J, Keith SL, Simpson L, McNutt MK, Gandhi RR, Schroepfel T, Hashim Y, Dissanaika SD. Bucket handle injury multicenter collaborative. Anastomotic leak following primary anastomosis of blunt-trauma associated bucket handle intestinal injuries: A Multi-Center Study, 36th East Annual Scientific Assembly, The Eastern Association for the Surgery of Trauma, January 17, 2023, Lake Buena Vista, FL

Dhanasekara S, Marschke B, Ko A, Campion E, Wood FC, Ng G, Herrold J, Keith SL, Simpson L, McNutt MK, Gandhi RR, Schroepfel T, Hashim Y, Dissanaika SD. Bucket handle injury multicenter collaborative. Anastomotic leak rates after repair of mesenteric bucket-handle injuries: A Multi-Center Study. Southwestern Surgical Congress Annual Meeting, Southwestern Surgical Congress, April 16, 2023, Ojai Valley Inn, CA

Farooqi A, Dai J, Rasberry S, Baker M, Prien S, Penrose L. Evaluating DNA fragmentation in sperm collected in a new device to reduce reactive oxygen species. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Griswold J. Burn injury as a foundation for research. Texas Tech University Health Sciences Center, BCoRE Symposium, Texas Tech Department of Surgery, April 14, 2023, Lubbock, TX

Hassan T, Bingi P, Yeater B, Shepherd C, Mathew M, Pang A. Altered coagulant activity in burn patients treated with albumin. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Hoelscher SH, Bumpus S. Decreasing documentation burden in a time of crisis [Poster presentation]. International Council of Nurses Congress, July 1-5, 2023 Montreal, Quebec, Canada

Hoelscher SH. More than documentation burden creating burnout: What systems must do to achieve safe, efficient patient care using technology [Virtual presentation]. American Academy of Nursing Policy Dialog Series Webinar, American Academy of Nursing, April 27, 2023

Jain S, Zeitouni J, Pang A, Patel S, Aickareth G, Griswold J. The prevalence of deep vein thrombosis and pulmonary embolism in electrical injury patients and their associated risk factors. North and South Texas Chapters of the American College of Surgeons, February 2023, Austin, TX

Jain S, Zeitouni J, Pang A, Patel S, Aickareth G. The prevalence of deep vein thrombosis and pulmonary embolism in electrical injury patients. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Jolly K, Zeitouni F, Abla H, Pang A, Griswold J. Autologous skin cell suspension with mechanical dermabrasion to accelerate donor site healing: A case series. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 – March 3, 2023, Lubbock, TX

Jones H, Thatigutia N, Tran A, Johnson R, Kahathuduwa C, Baronia R, Ibrahim Y. Positive psychological traits and the effect of the COVID 19 pandemic on depression and anxiety. Texas Tech University Health Sciences Center, Graduate School of Biomedical Sciences Student Research Week. March 8-11, 2022, Lubbock, TX

Khemka S, Patel S, Tran V, Ugwa D, Bandaru V, Chaudhury T, Wilemon J, Chaudhury H. Body mass index, a poor indicator of skin graft uptake. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 – March 3, 2023, Lubbock, TX

Kim I, Samanta A, Park A, Santineau K, Nguyen D, Ray C, Porter M, Reppa CM. Home oriented visual acuity trial: Measuring vision at home. Student Research Week, Texas Tech University Health Sciences Center, May 2023, Lubbock, TX

Lee L, Diab S, Barone J, Crozier J, Chen M, Rahman R, Maganini R, Marks D, Truitt A, Blumencranz L, Yonder E, Audeh W, Vanderbaan, B. The FLEX real world data platform explores new gene expression profiles and investigator-initiated protocols in early stage breast cancer. San Antonio Breast Cancer Symposium, December 8-11, 2020 Poster # OT12-01, San Antonio, TX

Matejka C, Zeitouni J, Pang A, Norman E, Griswold J. Silver sponge wound vacuum as a dressing for kerecis. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 – March 3, 2023, Lubbock, TX

McLelland R, Studzinski C, Burkhalter B, Pang A, Griswold J. The relation between distance from the burn unit and the prognosis of the burn. North American Burn Society, March 2023, Mammoth Mountain, CA

Mintz-Binder RD, Andersen S, Sweatt L. Helping nurses manage stress by building resilience [Virtual presentation] and The quality of life of nurses providing care for our heroes. 2022 Nursing Research Conference, Veterans Affairs Healthcare Systems, Dallas, TX. Morgan RD, Kharbat A, Collins RA, Garza J, Belirgen M, Nagy L. Analysis of the timing of cranioplasty on outcomes and the incidence of bone resorption. February 2023, 18th Annual Academic Surgical Congress, and 18th Joint Annual Meeting, North & South Texas Chapters of the American College of Surgeons (ACS).

Clinical Research Institute

Morgan RD, Kharbat A, Collins RA, Garza J, Belirgen M, Nagy L. Impact of timing of decompressive craniectomy on outcomes in pediatric TBI 18th Joint Annual Meeting North & South Texas Chapters of the American College of Surgeons (ACS), February 2023,

Morgan RD, Collins RA, Nagy L. Impact of timing of decompressive craniectomy on outcomes in pediatric TBI, Congress of Neurological Surgeons, October 2022

Nanni A, Jain S, Pang A, Zeitouni J, Lachmansingh J, Griswold J. Extracorporeal membrane oxidation in burn patients with severe inhalation injuries: A case study. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Norman E, Zeitouni F, Zeitouni J, Zhu C, Pang A, Griswold J. Autologous cell suspension with split thickness skin graft to treat burn wounds with delayed healing. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Pang A. Directing medical student research: Never wait more than 2 weeks. Texas Tech University Health Sciences Center, BCoRE Symposium, Texas Tech Department of Surgery, April 14, 2023, Lubbock, TX

Patel S, Aickareth G, Pang A, Griswold J. Biodegradable Temporizing Matrix (BTM) utilization on a pediatric burn following an exploratory laparotomy: A case study. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

Perabo A, Robison K, Pang A, Venable A, Bharaddia D, Griswold J. Lidocaine and ketamine as sedation for burn wound care in a pediatric patient. North American Burn Society, March 2023, Mammoth Mountain, CA

Pham T, Dissanaik SD, Shrestha K, Dhanasekara, CS. Evaluating the ethics of comfort care in self-immolation burns. American Burn Association 55th Annual Meeting. American Burn Association, May 16, 2023, Denver, CO

Prien SD. Does the sperm collection environment influence our outcomes? South Texas Assisted Reproductive Technologies Group Quarterly Meeting, South Texas Assisted Reproductive Technologies Group, June 29, 2023, New Braunfels, TX

Raghuram A, Pang A, Tapp R, Siddiqui K, Jilani T, Bharadia D, Griswold J. Retrospective study evaluating the role of sunlight exposure and fenestration in burn surgical complication rates and length of stay. North and South Texas Chapters of the American College of Surgeons, February 2023, Austin, TX

Raghuram A, Zeitouni J, Pang A, Tuazon C, Woodard A, Bharadia D, Griswold J. A case series evaluating the outcomes of autologous skin cell suspension on necrotizing soft tissue infections. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

2023 Annual Report

Raghuram A, Householder N, Jang W, Bruccoliere A, Clark J, Pang A, Griswold J. A retrospective study evaluating the outcomes of co-located orthopedic and thermal injuries. 35th Annual Student Research Week, Texas Tech University Health Sciences Center, February 28 - March 3, 2023, Lubbock, TX

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