



Clinical Research Institute
TTUHSC

Annual Report
FY2021

Promoting Patient-Oriented Research and Training

EXECUTIVE DIRECTOR'S STRATEGIC PLAN:

The CRI continues to focus on its mission of supporting research interests of every faculty and trainee within TTUHSC. Over the last fiscal year, the CRI undertook three major initiatives: 1) with help of our excellent coordinators the CRI inherited oversight and day-to-day operations for the research efforts within UMC's Cancer Center. This project first required significant clean-up of several years of research that had gone unattended. This process took over 6 to 9 months. This last March we were able to jumpstart the cancer research efforts by bringing on new studies and recruiting patients to these extremely important cancer clinical trials; 2) we've begun supporting several state-funded psychiatric initiatives to help assess childhood depression as well as PTSD after traumatic events in conjunction with the Department of Psychiatry and its chair, Dr. Sarah Wakefield. These initiatives are up and running and quite robust as far as human subject/patient interaction as well as data collection; 3) finally we have begun discussions with the leadership at Covenant Medical Center with plans of strengthening the CRI's presence and capabilities of supporting clinical research efforts by faculty and trainees on that campus.

This fiscal year (FY22), our focus is on rebuilding and strengthening the Division of Biostatistics within the CRI. We are currently searching aggressively for a director of that division. We continue to revamp and strengthen the support of the UMC Cancer Center research mission. We will begin active interaction with faculty and trainees at the Covenant Medical Center as well. We will also be developing and supporting an exciting program developed through TTUHSC President's Strategic Plan focusing on exposing health and healthcare disparities. The program will construct research projects to help alleviate or dissolve any existing healthcare disparities that exist within our West Texas communities. This is a collaborative and innovative multidisciplinary effort involving all the schools of the HSC with excellent financial support in the form of seed grants. Formal announcements of this program will be forthcoming within the next several months.

As always, the CRI will continue to support any and all research efforts by faculty and trainees hoping these efforts will contribute to the improvement of healthcare for the future.

SUMMARY:

Fiscal Year (FY) 2021 was a year full of growth and opportunity for the Clinical Research Institute (CRI). At the beginning of FY21 the CRI was transitioned from reporting to the Provost to reporting to the Executive Vice President for Clinical Affairs. In FY20, the CRI had eight clinical research coordinator positions; in FY21 this grew to 13. We also added an additional regulatory specialist to assist with IRB work, and 2 part-time graduate students to assist with statistical services. The CRI's Director of Statistical Services left TTUHSC in May 2021; although he has maintained his support of the CRI by staying on as a consultant. The other CRI full-time biostatistician also left TTUHSC to pursue other career opportunities in January 2021. Currently, the largest struggle for the CRI is trying to fill these vacant biostatistical positions. Lastly, one of the Regulatory Specialists, left TTUHSC in April 2021.

In FY21, the collaboration with University Medical Center regarding the CRI administration of their Cancer Center clinical research was finalized and new staff hired. Two studies with the TTUHSC Department of Psychiatry were initiated and two research coordinators hired in CRI to conduct them. These studies are sponsored by the TCMHCC-Texas Child Mental Health Care Consortium (101351-CPAN, 101353-TCHATT, 101352-CPWE, and 101350-CAP Fellowship) which is funded by Senate Bill-11. Conversations began with Covenant Medical Center

regarding CRI involvement in TTUHSC related research activities at their institution and appear fruitful.

This year the CRI had 150 work orders approved; down 22%, from 193, last year. It is believed that this decrease is related specifically to having no full-time biostatistical support since May 2021. The number of work orders received from the Permian Basin campus increased 15.38%. An important service provided by the CRI involves Institutional Review Board (IRB) study preparation and submission work. In FY21 the CRI had 783 forms submitted to IRB. Forty-seven percent of studies submitted to the IRB were approved the first time. In an effort to demonstrate the involvement of TTUHSC faculty in study recruitment activities, participant referrals by Principal Investigators are tracked by the CRI research coordinators. Like last year, this year saw a dramatic increase (189.4%) in those referrals. TTUHSC's contribution to science and healthcare can be tracked by its publications. The CRI is not always notified of publications; therefore, our reporting numbers are most likely lower than in actuality. In FY21, we had a 140% increase in the number of manuscripts published (36); and the percentage of those publications that were PubMed indexed rose by 58.9%

In 2011 the Clinical Research Institute started to work on the development of a volunteer database. The purpose of this database was to allow the general public to independently sign up to be contacted about possible participation in clinical research studies. This volunteer database website went live on September 10, 2012. There are currently more than 550 volunteers in the database. The CRI has utilized this resource to recruit study participants for different types of projects, including healthy volunteer projects. Our hope is that this database will continue to grow, and eventually be robust enough to allow running a report for almost any condition and completing study recruitment in record time.

The COVID-19 pandemic continues to adversely affect clinical research, as does the CRI not having full-time biostatistical support. CRI had 2 study coordinators out for extended lengths of sick time this FY; one for 6 ½ months, and one for 2 months. Therefore, overall productivity was down again this FY from previous years. However, in spite of these challenges, the CRI coordinators were able to recruit more than 5200 study participants, an increase over FY20 of more than 161%! Further, with the support of the CRI, TTUHSC faculty presented 60% more abstracts and published 86.65% more manuscripts than in FY20.

FY21 Highlights: Asher George, MPH, SOM student, received the Dr. Lorenz O. Lutherer Award during the 2021 Student Research Week, held March 9-12, 2021 for his work on "Frailty is an independent predictor of any 90-day complication following Robot-Assisted Radical Prostatectomy for Prostate Cancer." Ami Knox completed a phlebotomy course and was certified as a phlebotomy technician on October 1, 2020; Sarah Wood completed her associate's degree then passed the NCLEX-RN licensing exam to become a Registered Nurse.

Ailena Mulkey, RN received an undergraduate certificate in Healthcare Administration from Colorado Christian University. Sarah Wood took her Association of Clinical Research Professionals certification exam and is now a certified clinical research coordinator.

The CRI welcomed the following new team members in FY21:

Clinical Research Coordinators: Victoria Johnson, BS, Rylee Law, LVN, BS, Mariana Fiori, PhD, Vicki Perez, AAS, William (Ben) Brugmann, PhD.

Regulatory Specialist: Clinton McDuff, BFA and Erin Smith, BS, BA.

The CRI has experienced considerable growth over the last year 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.

ACHIEVED GOALS & OBJECTIVES:

The CRI continues to meet its objective for facilitating and growing clinical research activities at TTUHSC. The activities of the CRI during FY21 as compared to FY20 are summarized in the following tables/graphs:

Table 1: Summary	2020	2021	%Change
Number of New Clinical Research Studies to the IRB	129	107	-17.05
Number of Novice Investigators	33	29	-12.12
Number of Participating Subjects	2019	5276	161.32
Number of Forms Submitted to IRB	678	783	15.49
Protocol reviews	473	342	-27.70
Statistical Analysis & Reporting	308	210	-31.82
*Abstracts Presented	11	19	72.73
% Abstracts Presented – PubMed Indexed	10%	5.26%	-47.40
*Research Presentations	53	44	-16.98
*Published Manuscripts	15	36	140.00
% Published Manuscripts – PubMed Indexed	45.45%	72.22%	58.90
Educational Presentations by CRI	10	21	110.00
Total studies closed/cancelled	1	17	1600.00
Total studies completed	31	32	3.23

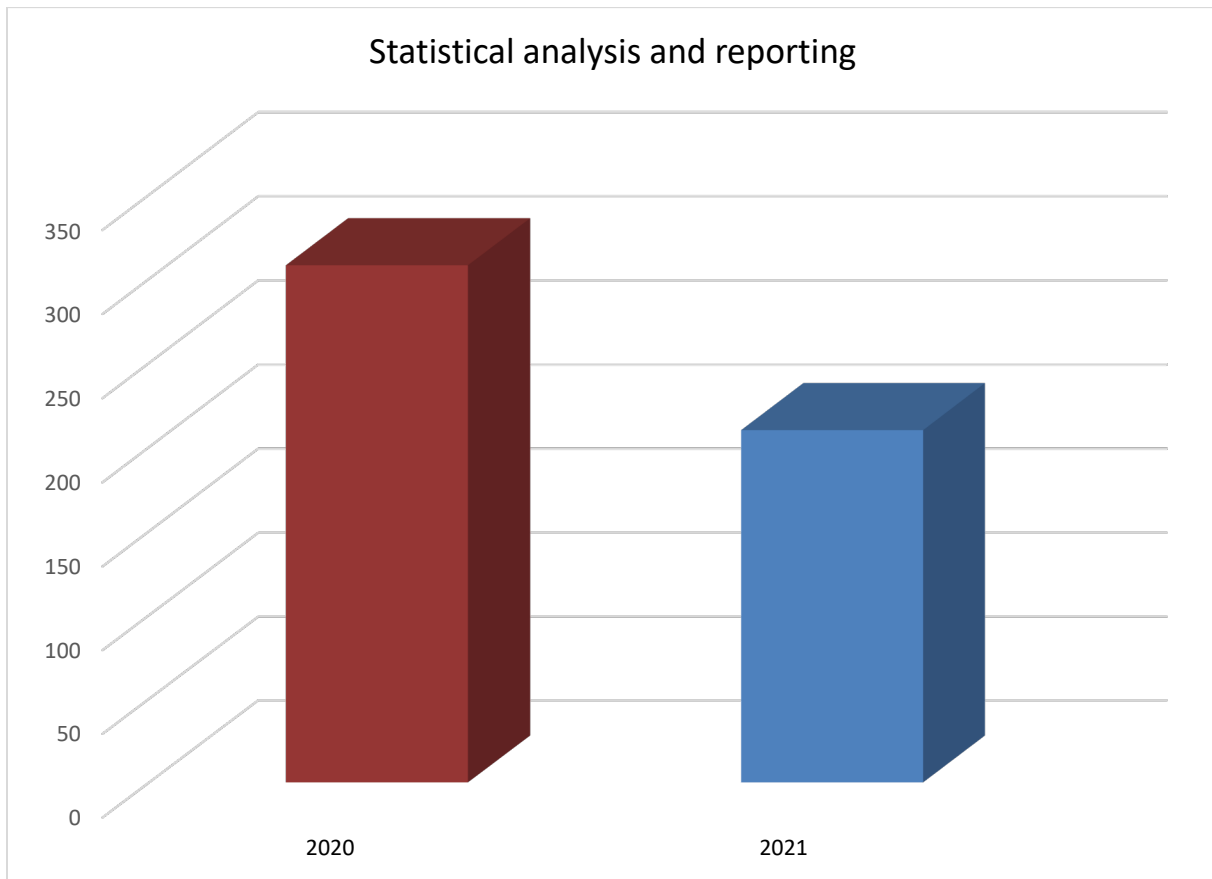
*Number is dependent upon the CRI being notified of the abstract, presentation, and publication

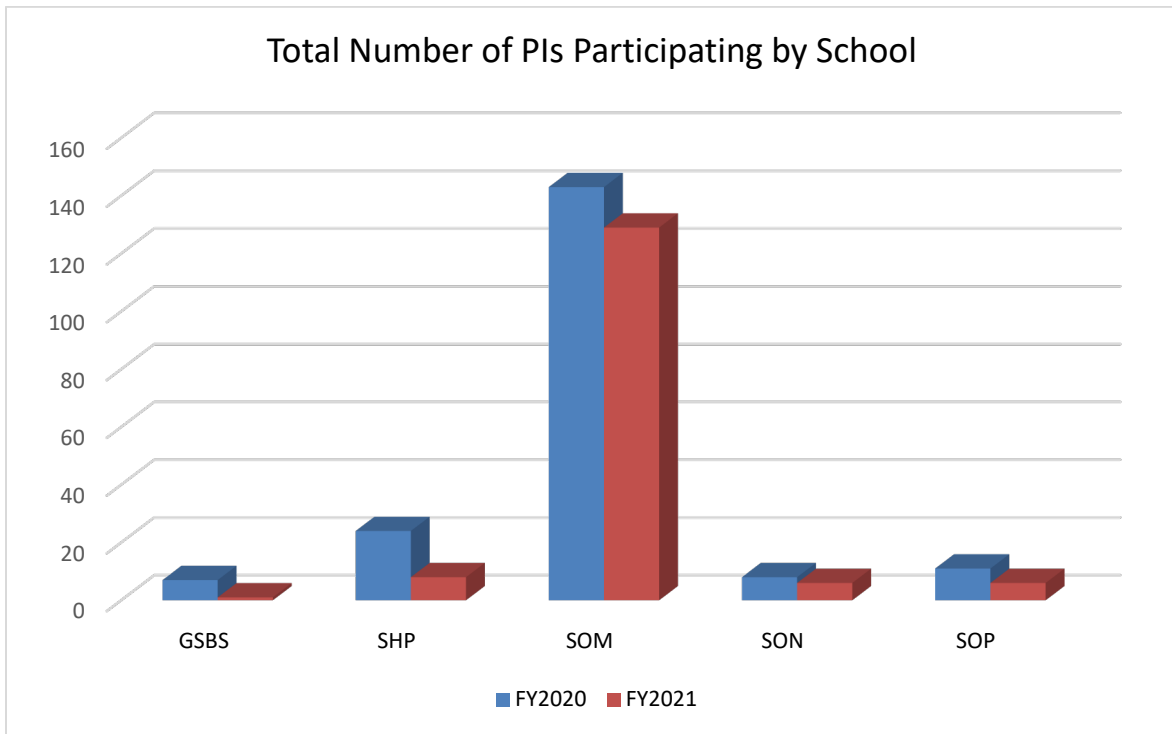
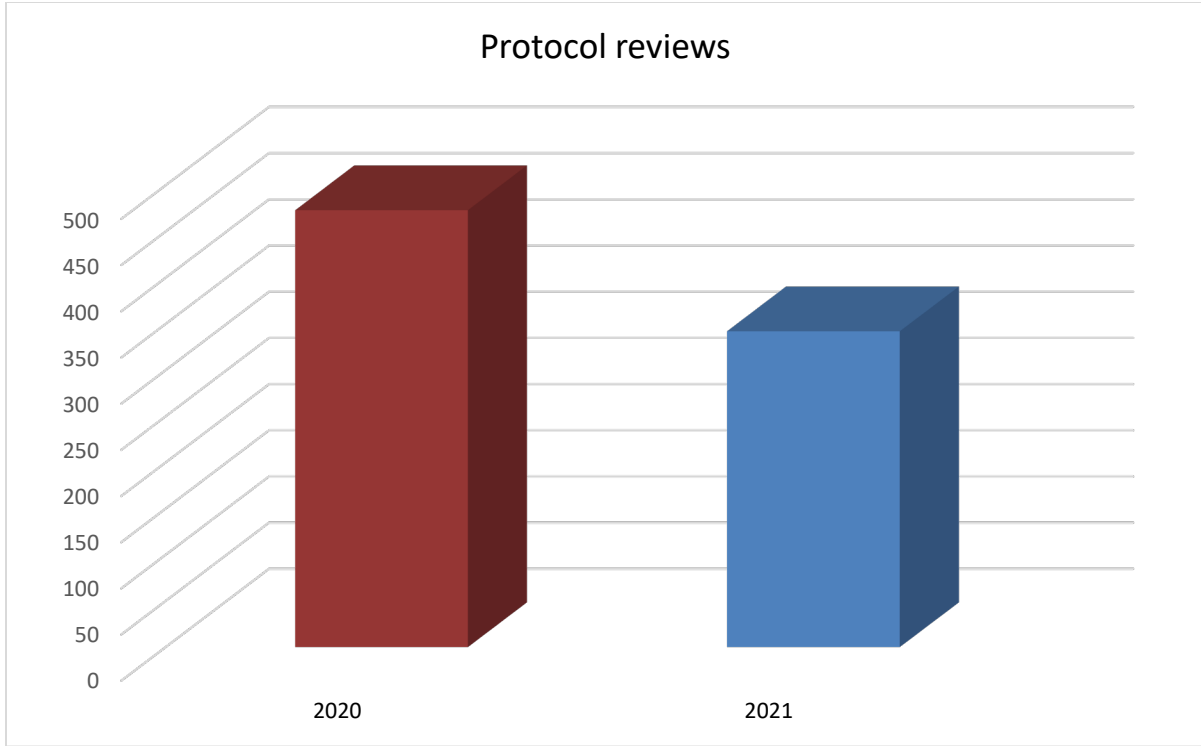
2021 approved work orders by campus

School	Lubbock	Odessa	Amarillo	Dallas	Abilene	Total # of WO by School	% of Total WO for each School
SOM	110	15	4	NA	NA	129	86%
SON	6	NA	NA	NA	NA	6	4%
SOHP	8	NA	NA	NA	NA	8	5.33%
SOP	NA	NA	NA	1	5	6	4%
GSBS/PH	1	NA	NA	NA	NA	1	0.67%
TOTAL WO by Campus	125	15	4	1	5	150	

N/A indicates the school does not have a presence on that campus.

UMC Nursing Research = 1





FUNDING:

Primary funding for the CRI in FY21 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 is also used. Moreover, the Dean of the School of Pharmacy contributes to the CRI overhead, along with a contractual arrangement between the CRI and University Medical Center in Lubbock. 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.

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 FY21. It is composed of faculty representatives from all schools and campuses, the TTUHSC President and Executive Vice President for Clinical Affairs, the Director of TTUHSC Simulation Program, and the Executive Leadership Team made up of the three Directors of the CRI: Executive Director John Griswold, MD; Thomas E. Tenner, Jr. PhD, Assistant Director; and Catherine Lovett, MSN, RN, Managing Director. The full list of members is provided in Appendix A.

There are thirteen study coordinator positions (4 RNs, 3 LVNs, 2 PhDs, 1 MBA, 1 BS, 1 CRC, and 1 vacant), an increase from eight in FY20. There are ten coordinators in Lubbock and three on the Permian Basin Campus. There are two regulatory specialists for submissions to the IRB, a study monitor, a section manager, and an administrative assistant. While FY21 saw growth in positions for statistical support, CRI lost its full-time statisticians and we have not filled the two vacant part-time graduate student positions. We currently have two PRN/as needed statisticians: Silvia Jakubski, MS and Hasan Al Mekdash, PhD. The full list of CRI staff members is provided in Appendix B.

EDUCATION:

The CRI continues to participate in the Student Research Week poster judging. Cathy Lovett, MSN, RN remains the Chairperson of the West Texas Chapter for the Society of Clinical Research Associates (SoCRA). Ms. Lovett recruits various speakers and topics to have a meaningful seminar series. The topics offer 1.0 Continuing Education Unit (CEU) hours. Additionally, the CRI created several short, on-line self-help videos on various topics. These videos are posted on the CRI web page and accessible with eRaider credentials. Dr. Al Mekdash gave an invited talk to the Department of Surgery residents on statistics and clinical research in Fall of 2020. Further, leadership from CRI presents at New Faculty Orientation routinely, and also sponsored/presented at the Spring 2021 Translational and Clinical Research Faculty Development Course. The CRI helped students in the 2021 Medical Student Summer Research Program navigate clinical research protocol design, IRB submission, and data analysis. Lastly, the CRI held a Clinical Research Coordinator training class for its new staff, as well as new staff in Psychiatry and Orthopedics.

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.

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 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.

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

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

Sharon Decker, RN, PhD, ANEF, FAAN, TTUHSC Simulation Program

Leslie Shen, PhD, CCRP, School of Medicine

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

Catherine Lovett, MSN, RN, CCRC, CCRP, Managing Director, CRI

Lori Rice-Spearman, PhD, President

John Griswold, MD, Executive Director, CRI

Lavi Oud, MD, School of Medicine, Permian Basin Campus

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

Thomas E. Tenner, Jr. PhD, Assistant Director, CRI

B. Clinical Research Institute Team

Lubbock:

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

Victoria Johnson, BS, Clinical Research Coordinator

Staci Brown, Administrative Assistant

William “Ben” Brugmann, PhD, Clinical Research Coordinator

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

Mariana Fiori, PhD, Clinical Research Coordinator

John Griswold, MD, Executive Director

Silvia Jakubski, MS, Biostatistician

Rohali Keesari, MPH, PharmD, Biostatistician

Ami Knox, MBA, CCRC, CPT, Clinical Research Coordinator

Rylee Law, LVN, BS, Clinical Research Coordinator

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

Josie Martinez, BSOE, Section Manager

Clinton McDuff, BFA, Regulatory Specialist

Vicki Perez, AAS, Clinical Research Coordinator

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

Erin Smith, BS, BA, Regulatory Specialist

Nancy Swinford, RT (R), CCRC, Clinical Research Coordinator

Thomas E. Tenner, Jr. PhD, Assistant Director

Sarah Wood, RN, CCRC, 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

C. Dissemination of Information

Abstracts (19) *PubMed

Ashcraft AS, Owen DC, Johnson K, Song H. “Long term care feasibility of nursing home LVNs using an algorithm-guided assessment support tool” *Innovation in Aging*, 3(Suppl 1), S506-S507. <http://doi.org/10.1093/geroni/igz038.1873>

Chathurika S, Caballero B, Moolupuri A, Chung C, Puckett Y, Santos A, Estrada M, Alhaj-Saleh A, Ronaghan C, Dissanaik S, Richmond R. “Improved patient outcomes and reduced cost in treating acute appendicitis with a shift-based acute care surgery model compared to traditional model” American College of Surgeons Clinical Congress, San Francisco, CA, October 2019

Dhanasekara S, Schrader K, Chandrahas S, Aickareth G, Dissanaik S, Griswold J. “Baseline copper levels are associated with worse outcome in burn patients with overweight and obesity” American Burn Association Annual Meeting, Chicago, IL, April 6 – 9, 2021 (oral)

Ferruffino C, Griswold J. “Evaluating real-world national and regional trends in definitive closure in US burn care: A survey of US Burn Centers” American Burn Association Annual Meeting, Chicago, IL, April 6 – 9, 2021

Freedle C, Sorensen G, Adams C, Hong D, O’Banion S, Kesey J, Griswold J. “Retrospective examination of copper supplementation in burn patients” Southern Region Burn Conference (Virtual), Lubbock, TX, December 3 – 6, 2020 *and* American Society for Parenteral and Enteral Nutrition (Virtual), March 20 – 23, 2021

Frost J, Griswold J. “Fixation of split-thickness skin grafts with liquid adhesive and fibrin glue in place of staples” Texas Surgeons Summit (Virtual), April 28-30, 2021

Ibrahim Y, Pasha N, Yang S, Sarangi A, Baronia R. Do positive psychological traits predict treatment response in patients with major depressive and/or generalized anxiety disorders? American Psychiatric Association Annual Meeting (Online), May 1-3, 2021, https://s7.goeshow.com/apa/annual/2021/form_print_preview.cfm?abstract_key=C0AFDF1E-21EE-EA11-80BD-001517382D49&active=1

John A, Anand R, Frost J, Griswold J. “Acute colonic pseudo-obstruction: A critical complication in burn patients” American Burn Association Annual Meeting, Chicago, IL, April 6 – 9, 2021

John A, Anand R, Frost J, Griswold J. “Acute colonic pseudo-obstruction – A complicated recovery” Texas Surgeons Summit (Virtual), April 28-30, 2021

Kopel J, Jakubski S, Al-Mekdash MH, Berdine G. “Distribution of age and apnea-hypopnea index in diagnostic sleep tests in West Texas” Baylor University Medical Center Proceedings <http://doi.org/10.1080/08998280.2021.1966710>

McGill M, Dhanasekara C, Caballero B, Chung C, Alhaj-Saleh A, Santos A, Ronaghan C, Dissanaik S, Richmond R. “Reduced cost in treating acute biliary disorders with a shift-based acute care surgery model” Southwest Surgical Congress, Ojai, CA, September 1 - 4, 2020

Norman BA, Senanayake CD, Griswold JA. “Overtriage of burn patients – More prevalent than assumed?” Southern Region Burn Conference (Virtual), Lubbock, TX, December 3 – 6, 2020

*Nwankwo EC, Lines J, Trehan S, Marsh M, Trehan A, Banwait K, Pathapti S, Misra S, Okokhare I. “Improving adenoma detection rates: The role of the fecal immunochemical test” *Cureus*. 2021 Apr 9;13(4):e14382. doi: 10.7759/cureus.14382. PMID: 33976998

Sarangi A, Nelson J. A descriptive study evaluating the impact of COVID-19 on delivery of care and mental health of geriatric nursing home staff members. Honors Scholar Alumni Session 2021 (Virtual), American Association of Geriatric Psychiatry, March 26, 2021
<https://doi.org/10.1016/j.jagp.2021.01.116>

Singh S, Uke N, Sorensen G, Payberah E, Terziyski I, Griswold J. “The ideal donor site dressing: A comparison of the chitosan dressing opticell to traditional dressings” Plastic Surgery The Meeting, San Francisco, CA, October 9 – November 30, 2020 *and* Southern Region Burn Conference (Virtual), Lubbock, TX, December 3 – 6, 2020

Sorensen G, Keck R, Frost J, Uke N, Singh S, Griswold J. “The use of surfactant-based debridement topical in a single burn center: A retrospective review and comparison with collagenase debridement topicals” JAB Burn & Wound Symposium (Virtual), April 21, 2021 *and* Research Day 2021 at the Permian Basin, April 29, 2021 *and* Texas Surgeons Summit (Virtual), April 28-30, 2021

Sorensen G, Uke N, Singh S, Frost J, Venable A, Burge B, Terziyski I, Payberah E, Griswold J. “The ideal donor site dressing: A comparison of a chitosan based gelling dressing to traditional dressings” JAB Burn & Wound Symposium (Virtual), April 22, 2021 *and* Texas Surgeons Summit (Virtual), April 28-30, 2021

Terziyski I, Snitman A, John A, Sorensen G, Adams C, Novello M, Griswold J. “A retrospective analysis of systemic norepinephrine impact on tangential excision and split thickness skin graft outcomes in burn shock patients” Texas Surgeons Summit (Virtual), April 28-30, 2021

Varman RM, Daniel H, Schrader K, Fort C, Al-Mekdash MH, Demke J. “Ability to identify external ear deformities and normal external ear anatomy based on year and specialty of medical training” *The American Journal of Cosmetic Surgery*,
<https://doi.org/10.1177/0748806821993681>

Journal Articles (36) *PubMed

*Andersen S, Mintz-Binder R, Sweatt L, Song H. Building nurse resilience in the work place. *Applied Nursing Research*, 59, Article 151433. <https://doi.org/10.1016/j.apnr.2021.151433>
PMID: 33947518

Ahnood E, Bradley B, Kesey J, Larumbe E, Griswold J. A comparison of methadone plus gabapentin with the traditional morphine/benzodiazepine regimen in burn patients. Burns. Submitted Jan 28, 2021

Almager IL, Cumby S, Almekdash MH. Developing human capital through instructional leadership: Learning to coach during principal preparation. *Open Journal of Leadership*, 10(2), 169-192

*Ayala D, Dhanasekara CS, Thomas K, Tran V, Le A, Hand A, Alhaj-Saleh A, Griswold J, Dissanaik S. Surgical management of advanced hidradenitis suppurativa via a one-stage procedure: A single-center experience. The American Journal of Surgery. 2020 Dec;220(6):1462-1466. doi: 10.1016/j.amjsurg.2020.10.004. Epub 2020 Oct 7. PMID: 33051068

*Batcheller J, Yoder-Wise P, Williams S. Preparing chief nursing successors: An evaluation of the chief nursing officer academy. *Journal of Nursing Administration*, 49(1), 24-27 PMID: 30531344

*Bluhm P, Eldem I, Abraham A, Almekdash MH, O'Suoji C. Evaluation of pediatric hematology referrals at a Tertiary University Hospital in West Texas. *Journal of Pediatric Hematology/Oncology* doi: 10.1097/MPH.0000000000002159. PMID: 33902065

*Boswell C, Ashcraft A, Long J, Cannon S, DiVito-Thomas P, Delaney T. Self-efficacy: Changing the tide of evidence-based practice. *Worldviews on Evidence-Based Nursing*. Advance online publication. <https://doi.org/10.1111/wvn.12434> PMID: 32243684

*Cambell LA, LaFreniere JR, Al-Mekdash MH, Perimutter DD, Song H, Kelly PJ, Shannon KL. Assessing civility at an academic health science center: Implications for employee satisfaction and well-being. *PLoS ONE*, 16(2), Article e0247715. <https://doi.org/10.1371/journal.pone.0247715> PMID: 33635902

*Carter J, Amani A, Carter D, Foster K, Griswold J, Hickerson B, Holmes J, Jones S, Khandelwal A, Kopari N, Litt J, Savetamal A, Shupp J, Sood R, Ferrufino C, Vadagam P, Kowal S, Walsh T, Sparks J. Evaluating real-world national and regional trends in definitive closure in US burn care: A survey of US Burn Centers. Journal of Burn Care and Research. 2021 Jul 30;irab151. doi: 10.1093/jbcr/irab151. Epub ahead of print. PMID: 34329478.

Clarke C, Mitchell K. Orbital cellulitis in West Texas. *The Southwest Respiratory and Critical Care Chronicles*, 9(40), 9-13. <https://doi.org/10.12746/swrccc.v9i40.829>

Cooper C, Little K, Hayward D, Keesari R, Almekdash MH. Potential bias found in patient payer type affecting satisfaction surveys. *The Journal of Medical Practice Management: MPM*; Tampa Vol. 37, Iss. 1, (July/Aug 2021) 348-352

*Crenshaw JT, Adams ED, Gilder RE, DeButy K, Scheffer KL. Effects of skin-to-skin during cesareans: A quasi-experimental pilot feasibility study. *Breastfeeding Medicine*, 14(10). <https://doi.org/10.1089/bfm.2019.0202> PMID: 31738574

*Crenshaw JT, Adams ED, Gilder RE, Nolte HG. Measuring health professionals' beliefs about skin-to-skin care during a cesarean. *Maternal & Child Nutrition*, 17(4), e13219. doi: [10.1111/mcn.13219](https://doi.org/10.1111/mcn.13219) PMID: 34159712

*Dhanasekara CS, Schrader K, Chandrahas S, Aickareth G, Dissanaik S, Griswold JA. Higher baseline copper levels are associated with worse outcome in burn patients with overweight and obesity. *Burns*. 2021. Sep24;S0305-4179(2)00263-1. doi: 10.1016/j.burns.2021.09.016. PMID: **34629187**

*Dundar Y, Eldem I, Schwartz C, Pomeroy L, Cordero J, Arslan O, Levent F. Screening awareness of HPV-related oropharyngeal cancers and attitudes and concerns towards HPV vaccination among parents. *Journal of Cancer Education*, 1-9. doi: 10.1007/s13187-020-01932-w. PMID: 33411252

*Gareau-Terrell J, Branham S. Can procalcitonin improve antibiotic stewardship for late onset sepsis evaluations in neonates. *Advances in Neonatal Care*. Advance online publication. <https://doi.org/10.1097/ANC.0000000000000761> PMID: 32366803

*Gautam B, Rogge MM, Acharya N, Keesari R, Al-Mekdash H. Obesogenic toxicants in breast milk of lactating women: Investigation of a rash factor for childhood obesity. *Biological Research for Nursing*, 22(2), 295-301. <https://doi.org/10.1177/1099800420909151> PMID: 32174160

Geist R, Opton L. Understanding social determinants of health in school age children through poverty simulation. *Nursing Made Incredibly Easy*, 18(5), 16-20. doi: [10.1097/01.NME.0000694216.76470.d3](https://doi.org/10.1097/01.NME.0000694216.76470.d3)

*Gomez J, Shehabeldin M, Almekdash MH, Keesari R, Alderazi YJ. Angiographic and clinical response of intracranial atherosclerotic disease large vessel occlusion stroke undergoing mechanical thrombectomy. *Journal of Stroke and Cerebrovascular Diseases*, 29(10), 105148. doi: 10.1016/j.jstrokecerebrovasdis.2020.105148. PMID: 32912534

*Hill T, Cherry B, LeClair-Smith C, Williams T. A unique strategy to address nurse leader fatigue. *Journal of Nursing Administration*, 50(2), 66-71. <https://doi.org/10.1097/naa.0000000000000844> PMID: 31929347

*Johnson BK. Observational experiential learning: Theoretical support for observer roles in health care simulation. *Journal of Nursing Education* 59(1), 7-14. <https://doi.org/10.3928/01484834-20191223-03> PMID: 31945168

*Marsh H, Al-Mekdash MH, Rossettie S, John A, Pelham K, Magers B. Implications of age on social media utilization in healthcare practice development: A focused study of healthcare faculty and students. *JMIR Hum. Factors*. 2021. Jul 15(8) 3e doi:10.2196.27528 PMID: 34010138

*Medeiros T, Bui V, Almekdash MH, Keesari R, Lee YR. Rate control with intravenous diltiazem, verapamil, and metoprolol in acute atrial fibrillation with rapid ventricular rate. *SAGE Open Medicine*, 9, 20503121211017756 doi: 10.1177/20503121211017756. PMID: 34104435

Meiser R, Wlazlo G, deRiese C. Prenatal care visit frequency: The patient perspective. *The Journal of Medical Practice Management: MPM; Tampa Vol. 36, Iss. 4, (Jan/Feb 2021): 222-225*

*Mintz-Binder RD, Andersen SA, Sweatt L, Song H. Exploring strategies to build resilience in nurses during work hours. *The Journal of Nursing Administration*, 51(4), 185-191. <https://doi.org/10.1097/NNA.0000000000000996> PMID: 33734177

Owen DC, Ashcraft AS, Johnson BK, Song H. Assessment of a potential UTI-using videos to analyze a simulated nursing home experience. *Innovation in Aging*, 4 (Supplement 1, 2020), 380. <https://doi.org/10.1093/geroni/igaa057.1224>

*Owen DC, Ashcraft AS. Creating shared meaning: A communication intervention in nursing homes. *Research in Gerontological Nursing*, 12(3), 121-132. doi: [10.3928/19404921-20190315-01](https://doi.org/10.3928/19404921-20190315-01) PMID: 30901480

Ruiz A, Wakefield S. Effectiveness of an 8-week curriculum in changing medical student self-assessment of knowledge and confidence toward sex trafficking. (*Submitted*), *Journal of Human Trafficking*

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Presentations (44)

Abidi H, Reddy S, Van Spronsen N, Moreno T, Demke J, Bharadia D. Assessment of gender preference in surgeons in patients pursuing aesthetic body plastic surgery. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Ali H, Jacobparayil A, Siddiqui A, Singh A, Kahathuduwa C, Chavez M, Baronia R, Ibrahim Y. Association between positive psychological factors and the prevalence of anxiety in medical students. 31st Annual Meeting American Neuropsychiatric Association, March 17-21, 2021 *and* Texas Tech University Health Sciences Center Student Research Week, March 9-12, 2021

Ali Z, Chyu J, Al-Mekdash MH, Al-Rahawan M. Evaluating urine pH and specific gravity: A single-center experience comparing different urine testing methods in children receiving high-dose methotrexate. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Ashcraft AS. Academic tenure: Perceptual variations among tenured, tenure-seeking and non-tenured faculty (Virtual conference). 2021 Nurse Educator Conference in the Rockies, April 13, 2021

Asher KG, Choi E, Jakubski S, Al-Mekdash H, Sharma P. Frailty is an independent predictor of any 90-day complication following robot-assisted radical prostatectomy for prostate cancer. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Basu T, Orlov E, Moton H, Vijayan M, Reddy P. Impact of calorie restricted diet on dementia and Alzheimer's disease: Focus on gut microbiota. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Becker B, Harvey B, Lee S. Intelligence of children with repair cleft palate: A retrospective chart review study. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Berg C, Calloway S, Young C. Self-management practices of university students with a mental health disorder; A novice research assistant perspective. SON Student Research Week 2021, Texas Tech University Health Sciences Center, School of Nursing, Spring 2021

Brantley W, Warren M, Dhanasekara S, Richmond R. Effect of BMI on large bore chest tube vs pigtail catheter. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Brown E, Petrie K, Sneed Z, Baronia R. Demographics and predictors of recidivism and graduation from Lubbock Drug Courts. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Bruce C, Trevino M, Van Spronsen N, Bharadia D . Assessing readability of online breast reconstruction resources: A comparison between DIEP and TRAM autologous reconstruction flaps. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Calloway SJ. The telehealth tsunami and implications for NP education [Virtual conference]. SON Student Research Week 2021, Texas Tech University Health Sciences Center, School of Nursing, Spring 2021

Calloway SJ, Young CS. Coping during COVID: experiences of college students with a mental health disorder. Psychiatry Update, Medscape Virtual Conference, June 15-19, 2021

Choi S, Garza J, Gandhi K, Sanchez A, Ventolini G. Cytokine profiles and lactobacillus species presence in pre-menopausal subjects with genital mycoplasma genitalium or ureaplasma urealyticum colonization. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Collins J, Thomas L, Vugrin M. Freedom wheels: A community-based approach to addressing the social determinants of health for foster care youth (Virtual conference). 2021 Southern Nursing Research Society Annual Conference, February 25, 2021

Collins R, Van Spronsen N, Couch B, Garcia L, Bharadia D, Griswold J. Use of an autologous cell harvesting system for soft tissue reconstruction of necrotizing soft tissue infection. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

DeSimon D, Hollands C. Evaluation of surgical outcomes of neonates' surgery during their initial hospital stay in the level 4 Neonatal Intensive Care Unit (NICU) at Covenant Children Hospital (CCH). GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Dowdle T, Schrader K, Bruce C, Frost J, Griswold J. Initial CO2 laser treatment practices for hypertrophic burns scars among surgeons at ABA Burn Center. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Frost J, Uke N, Singh S, Sorensen G, Venable A, Burge B, Terziyski I, Payberah E, Griswold J. The ideal donor site dressing: A comparison of a chitosan based gelling dressing to traditional dressings. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Gabrilska R, Tipton C, Rumbaugh K, Phillips C. Genome-wide association study of the human chronic wound microbiota. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Hecox E, Spontarelli K, Spontarelli J, Robbins E. A retrospective comparison of primary outcomes for low-risk primigravida mothers delivered by board-certified family medicine versus obstetrics and gynecologist physicians. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Ibrahim Y, Baronia R, Mohammed A, Joshi A, Singh A, Morgan T, Xu T, Kim D. The association between positive psychological factors and undergraduate academic performance in medical students. Association for Academic Psychiatry (AAP) Annual Meeting, Embassy Suites Denver Downtown, Denver, CO, September 8-11, 2021

Jarman T, Hayward D, Marsh H. Objective depression: The search for clinical tools to diagnose major depressive disorder. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Kim D, Morgan T, Xu T, Mohammed A, Ibrahim Y, Joshi A, Baronia R. The association between positive psychological factors and undergraduate academic performance in medical students. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Mateja K. Pediatric trauma management: Development of whole blood transfusion protocols. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Mintz-Binder RD, Andersen SA, Sweatt L, Song H. Reducing nurse stress and building resilience for a healthier work environment (Virtual conference). 2021 Sigma Theta Tau International Healthy Work Environment Conference, February 18-20, 2021

Navarro S, Abla H, Delgado B, Colmer-Hamood J, Ventolini G, Hamood A. Glycogen availability and pH variation influence the growth of vaginal lactobacilli and gardnerella species. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Owen DC, Ashcraft AS, Johnson BK, Song H. Feasibility of nursing home LVNs using an algorithm-guided assessment support tool. Gerontological Society of American Conference, Austin, TX, November 13-17, 2019

Perry C, Wynn A, Dowdle T, Bruce C, Bishop K. The influence of rural vs urban hometown on medical students' knowledge and perceptions toward opioids and the opioid epidemic. UTHealth School of Public Health Research Beyond Boundaries Conference, Houston, TX, April 16, 2021

Petrie K, Brown E, Sneed Z, Baronia R. Throughout the courts: Participants in different types of Lubbock County Drug Courts, their demographics, and possible predictors of recidivism and graduation. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Ramesh M, Tarbox JA, Singh S, Awasthi S. Rlip loss poses a therapeutic target for treatment of atopic dermatitis. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Reddy S, Van Spronsen N, Moreno T, Abidi H, Cole T, Bharadia D, Demke J. Evaluation of gender preference for surgeons among patients seeking aesthetic facial plastic surgery. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Schneider R, Gabriliska R, Rumbaugh K. Characterizing pseudomonas aeruginosa in the intensive care units at UMC. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Schoeberl M, Mikkelson M, Urias E, Scott, C, Lee J, Shen C, Al-Rahawan M. Vitamin D levels in pediatric patients undergoing chemotherapy. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Schrader K, Dhanasekara S, Chandrahas S, Aickareth G, Dissanaik S, Griswold J. Baseline copper levels negatively predict outcomes of burn patients with overweight and obesity. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Sheladia S, Reddy H. Age-related chronic diseases and Alzheimer's disease in Texas: A Hispanic focused study. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Siddiqui A, Ali H, Jacobparayil A, Singh A, Kahathuduwa C, Chavez M, Baronia R, Ibrahim Y. Association between positive psychological factors and the prevalence of anxiety in medical students. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Sikes D, Chapman AK, Chen C. From prospect to honors-the path to promoting military and veteran students' success. 12th Annual Texas Veterans Higher Education Symposium, Texas A&M University System, Corpus Christi, TX

Singhal E, Dissanaik S, Xu T, Al-Mekdash MH, Anamege D, Seleh A, Lazarus J, Tucker A. Role of critical access hospitals in trauma. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Terry M, Tully N, Tucker A, Dhanasekara S, Ronaghan C, Richmond R. Dynamic cushioning: A complex relationship between obesity & trauma patients undergoing laparotomy. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Terziyski I, Snitman A, John A, Sorensen G, Adams C, Novello M, Griswold J. A retrospective analysis of systemic norepinephrine impact on tangential excision and split thickness skin graft outcomes in burn shock patients. GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021

Young CS, Calloway SJ. College students coping with a mental health disorder. American Academy of Nursing Health Policy Conference, Washington, D.C., October 7-9, 2021

Young CS, Calloway SJ. Transition experiences of college students with a mental health disorder. International Healthcare Transition Research Virtual Symposium, October 27, 2021

Wilson E, Rahesh J, Nazim M, Ahmed H. The bougie went easy, buy oops! GSBS Student Research Week, Texas Tech University Health Sciences Center, March 9-12, 2021