

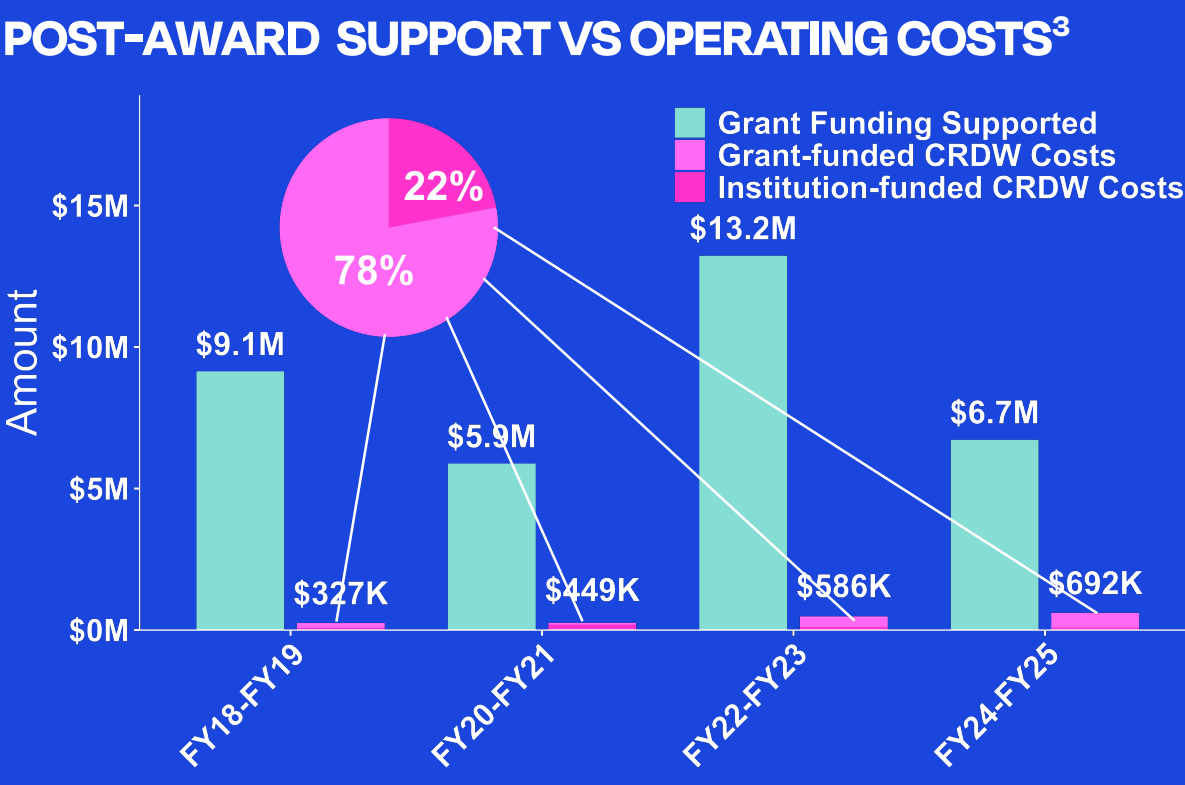


CLINICAL RESEARCH DATA WAREHOUSE

Supporting faculty and students with clinical data and research informatics since 2017¹

SINCE 2017, FOR EVERY
\$1 SPENT, **\$17**
CRDW HAS SUPPORTED
**OF EXTERNAL
GRANT FUNDING²**

THE CRDW HAS SUPPORTED
350+
STUDIES INCLUDING
OVER 70
FUNDED GRANTS
REPRESENTING OVER
\$34.9M
IN TOTAL FUNDING
AWARDED



CRDW CORE SERVICES :

Service Category	Examples
Feasibility Studies	Cohort discovery
Prep to Research	Preliminary data
Retrospective Study	Real-World Evidence
Quality Improvement	Benchmarking & trends
Recruitment & Registry	Automated cohort id
Case Report Automation	Streamline chart abstraction

"The CRDW was pivotal in our **\$11.3M** NIH COBRE Phase-2 renewal submission and will continue to support the program over the next five years with **robust infrastructure and technical expertise.**"
– Dr. Javier A. Jo,
OU Cancer Imaging Center



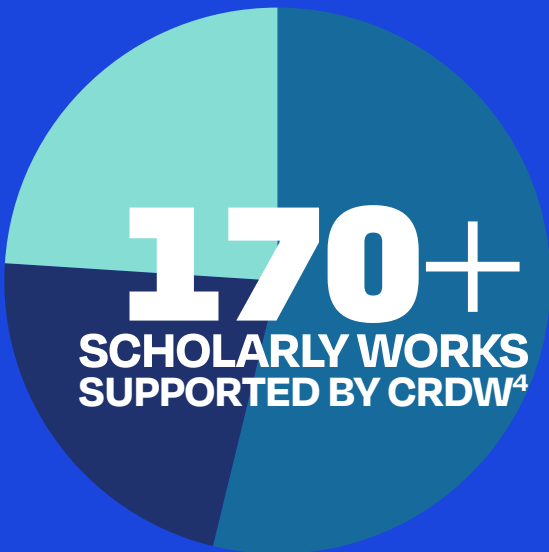
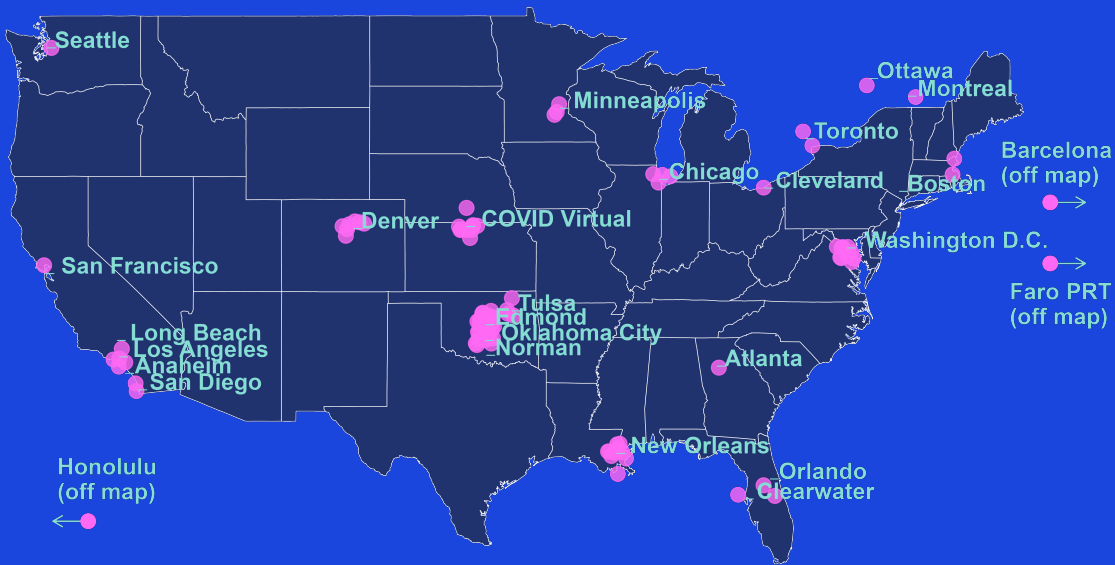
CRDW ACADEMIC

RESEARCH IMPACT FOR OKLAHOMA'S FLAGSHIP ACADEMIC HEALTH SYSTEM

"In addition to the wonderful research support that the CRDW provides, they are also **crucial** to the **education** of our residents. Their assistance with resident research projects serves as a **foundation for future research activities.**"

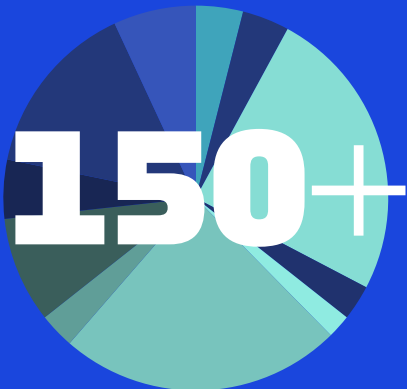
- Dr. Matthew Le, Pediatrics

CRDW-SUPPORTED PROJECTS RESULTED IN PRESENTATIONS REGIONALLY AND ALL ACROSS THE COUNTRY



- Presentations (92)
- Manuscripts (38)
- Posters (41)

STUDENT PROJECTS FROM MANY DEPARTMENTS



- Urology (4%)
- Surgery (3%)
- Biostats/Epi (3%)
- Neurology (14.9%)
- OB/GYN (4%)
- Dermatology (2%)
- Internal Med (8.9%)
- ORL (6.9%)
- Orthopedics (24.8%)
- Pediatrics (23.8%)
- Pharm/Nursing (5%)

PROJECTS SUPPORTED BY THE CRDW HAVE BEEN PUBLISHED IN OVER 2 DOZEN JOURNALS, INCLUDING MANY TOP-TIER:

Ex. General Medicine Journals

- N Engl J Med — CiteScore 99%
- JAMA — CiteScore 98%
- PLoS One — CiteScore 86%
- Am J Med Sci — CiteScore 82%

Ex. Specialty Journals

- J Am Acad Child Adol Psychiatry — CiteScore 98%
- J Adolesc Health — CiteScore 95%
- Crit Care Med — CiteScore 94%
- Headache — CiteScore 89%

PROJECTS SUPPORTED BY THE CRDW HAVE BEEN PRESENTED AT **OVER 3 DOZEN** ACADEMIC CONFERENCES:

Ex. Local Hosts

- University of Oklahoma
- OK Ped Clin Trials Network
- OKC Innovation District

Ex. Regional Hosts

- OK Acad of Fam Physicians
- Southern Society for Ped Res
- OK Soc of Health-System Pharma

Ex. Nat'l/Int'l Hosts

- Am. Acad of Neurology
- Am. Soc for Rad Onc
- Society of Hosp Med



PRE-AWARD BENEFITS: LEVERAGING THE CRDW IN COMPETITIVE GRANT SUBMISSIONS

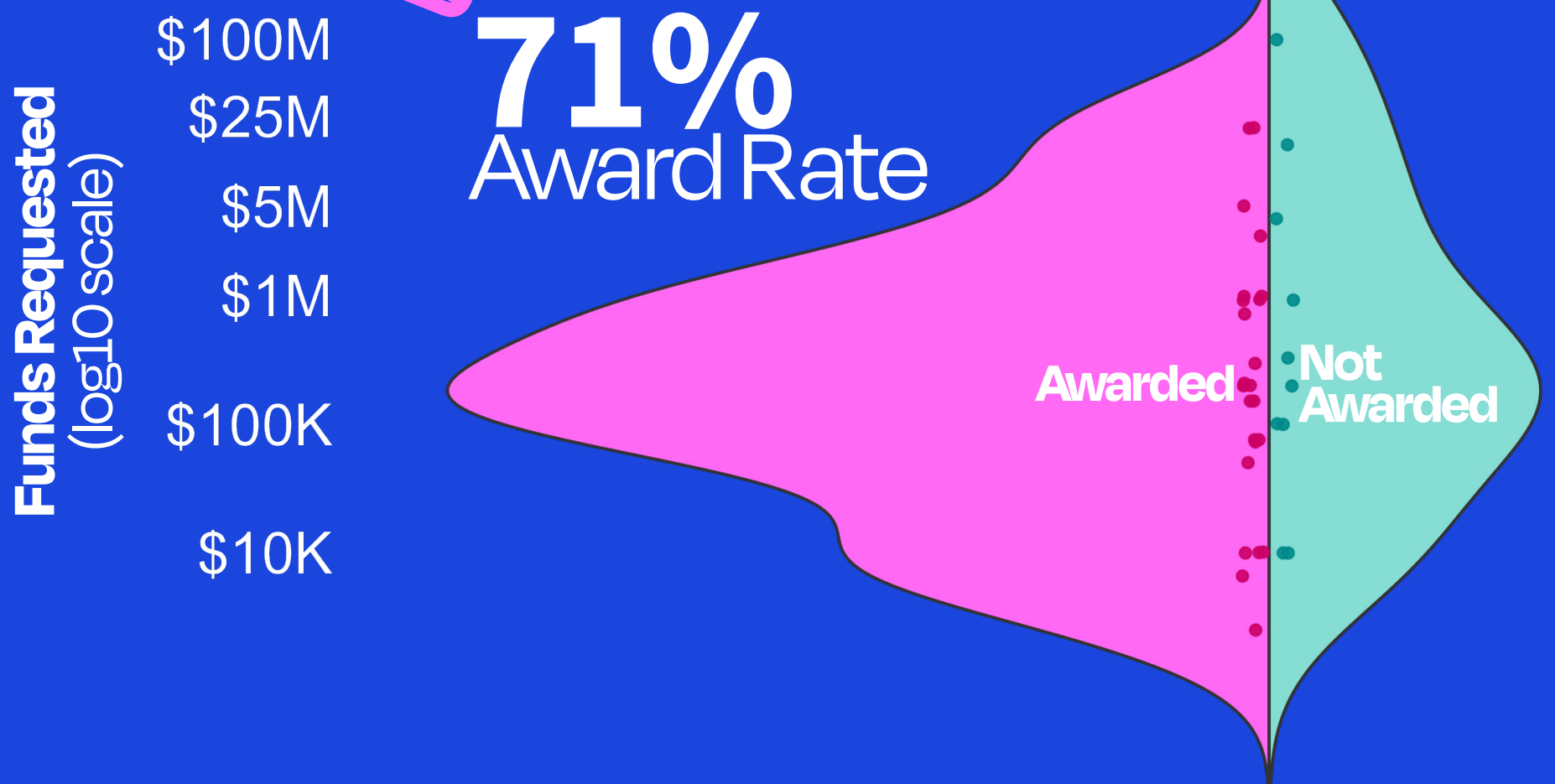


CRDW PROVIDES FEASIBILITY ASSESSMENTS,
PATIENT COHORT
COUNTS, TECHNICAL GUIDANCE,
INFORMATION SECURITY BEST
PRACTICES, ANALYTIC &
COMPUTATIONAL EXPERTISE

36 Proposals Budgeted
CRDW services and
competed for
\$187.5M

100+ ADDITIONAL
PROPOSALS⁵ CITED THE
CRDW AS A **KEY RESOURCE**

Over **\$54.6M** awarded so far.⁶ Another
\$12.3M under review.



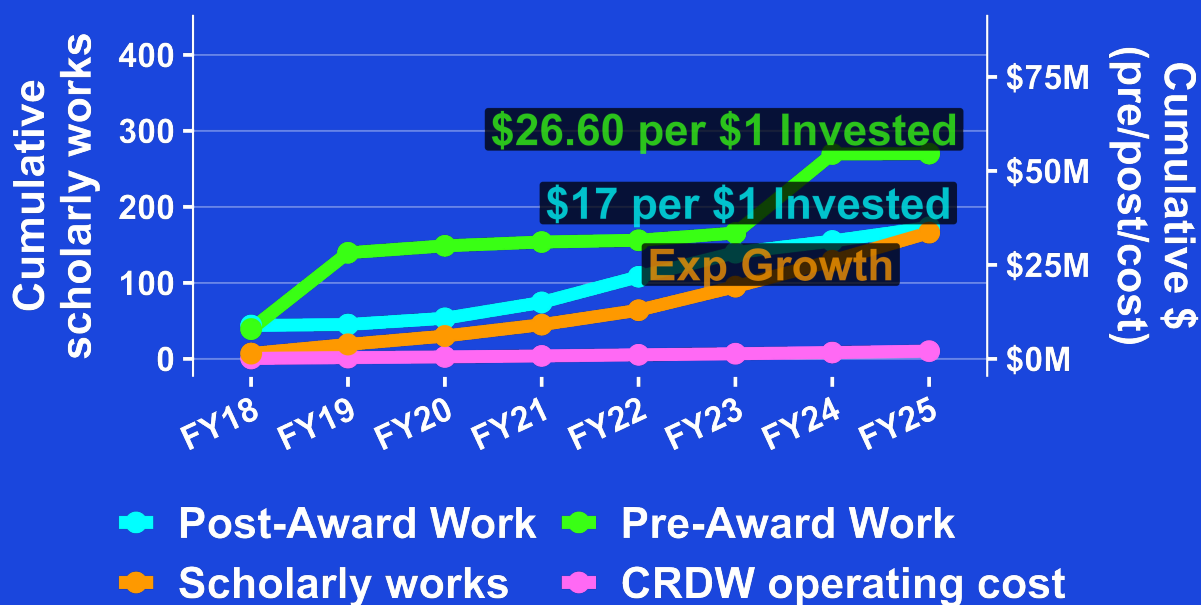
"The CRDW's **expertly curated** and **standardized data** are **essential** to evaluating OU's eligibility for multi-center clinical trials funded by the NIH, other leading funding agencies and industry sponsors."

- Dr. Joseph Sassine, Infectious Diseases, Dept Internal Med



ENSURING CRDW'S LONG-TERM RETURN ON INVESTMENT

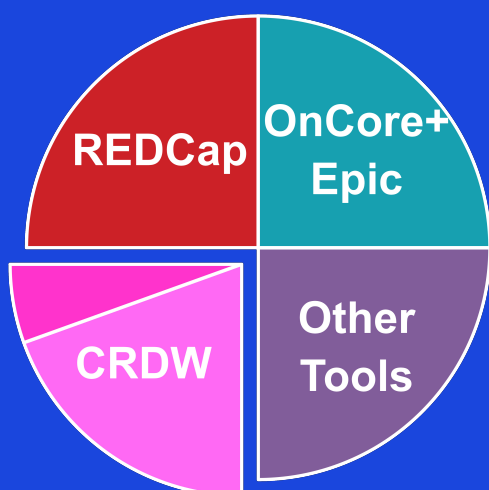
CRDW Impact Over Time



RECENT
FUNDING CUTS
JEOPARDIZE
OPERATIONS
AND IMPACT.

SUSTAINED SUPPORT
Costs
\$375K/YEAR

OCRI Services



CRDW Funding Breakdown

- Previously Grant-Funded
- Institution-Funded

CRDW is managed by the Office of Clinical Research Informatics (OCRI)

- CRDW facing **major external funding gap**
- **Services threatened** include:
 - Custom EHR datasets and reports
 - Analytic design & guidance
 - Tech support for other OCRI Resources (See Appendix G)

"**The CRDW team** has the expertise to cut through fragmented, inconsistent data and **uncover the truth better than anyone else. Sustaining and expanding this resource is essential**, not only to advance health research, but also to ensure clinicians can rely on trustworthy data to improve patient care."

Dr. Taha Al-Juhaishi,
OU Health Assoc. CMO



CRDW KEY PLAYERS AND EXPERTISE



David Bard, PhD

Chief Research Informatics Officer

Dr. David Bard leads the CRDW as Chief Research Informatics Officer at OUHSC, where he shapes the **strategic** vision for research **data access, security, and integration**. With a background in psychological and behavioral health research, he brings a user-centric perspective to the development of data systems that serve translational and clinical research across the enterprise. He also plays a key role in institutional efforts around **data governance, regulatory compliance, and research enablement**.



Will Beasley, PhD

CRDW Architect and Director of Operations

Dr. Will Beasley brings deep expertise in **data architecture, ETL engineering, and scalable** system design. He is the principal architect of the CRDW, where he develops and maintains the custom infrastructure that transforms raw EHR data into actionable research assets. His strengths include complex SQL **optimization**, metadata-driven **automation**, and rigorous **data validation**. He is also the author of foundational R packages and internal tools that **streamline data extraction** and **reproducibility** across studies.



Ashley Thumann, MHA

EHR Navigator

Ashley Thumann specializes in clinical workflow translation, source system navigation, and variable discovery. She excels at **identifying** the **real-world documentation** practices behind EHR data and aligning those with research goals. Her strengths include **clinical operations knowledge, Epic system fluency**, and a talent for **bridging communication gaps** between IT teams and clinical investigators. She plays a critical role in ensuring data relevance, **interpretability**, and contextual **accuracy**.



Arnold Kanagwa, MS

Senior Data Scientist

Arnold Kanagwa focuses on **data pipeline engineering, algorithm development, and scalable analytics infrastructure**. He has led projects involving **predictive modeling** for hospital readmission, **natural language processing** of clinical narratives, and synthetic data generation for **AI training**. His strengths include advanced SQL, R/Python scripting for **machine learning**, and building resilient ETL processes that feed the CRDW. He is particularly skilled at combining structured and unstructured data for real-world evidence generation.



James Cheng, MA

Project Manager

James Cheng brings expertise in **cross-functional coordination, workflow design, and strategic project execution**. He excels at managing timelines across diverse teams, **translating** technical dependencies into actionable tasks, and keeping informatics projects aligned with **institutional priorities**. His strengths include stakeholder communication, **process improvement**, and navigating the **operational** layers of large-scale data projects. He ensures the CRDW team stays organized, focused, and responsive to evolving research demands.



Geneva Daniel, MS

Senior Data Scientist

Geneva Daniel combines technical fluency in **data wrangling** and **API development** with **operational expertise** in clinical trials. She is proficient in SQL, R, and RESTful **API** integration, and serves as the enterprise administrator for OU's **OnCore** and **eReg** systems. She also has **Epic** certifications in Cosmos Data Science and works with researchers to explore national data sources such as **Cosmos** and **AlLOfUs**. She is currently contributing to scripting an app using **custom GPTs** to address data cleaning concerns for novice data analysts.

Acknowledgements are owed to these individuals and groups for the infrastructure support and guidance in building and maintaining the OUHSC CRDW:

- Information Technology at OU Health University of Oklahoma, OU Health, and Norman campus
- Oklahoma Shared Clinical and Translational Resources (OSCTR)

I always tell others that working with this team has been a true **highlight** of my time at OU. Every project has been **seamless, helpful, and consistently excellent**.

- Dr. Ryan Nipp, Stephenson Cancer Center



APPENDICES

- **Footnotes**
- **When to Use CRDW: An Epic Tools Comparison Chart**
- **Appendix A – Projects that Utilized CRDW Resources**
- **Appendix B – Grant proposals citing CRDW**
- **Appendix C – Grants with CRDW written into budget**
- **Appendix D – Student projects**
- **Appendix E – Published manuscripts**
- **Appendix F – Conference presentations**
- **Appendix G – CRDW Other Supports and Initiatives**

Footnotes

1. Development of the CRDW began in 2015 but formal tracking of project requests and outputs did not start until Fall of 2017.
2. These funds do NOT include large infrastructure grants like the OSCTR that budgeted general CRDW support (not isolated to one project). Also, grant funding totals were not a primary focus of past project tracking and are likely underestimated. Figures were compiled from investigator self-reports, public university funding databases, and available CVs.
3. Operational costs reflect CRDW staff FTE and computing infrastructure costs. Most of these costs have been covered by external grant support (e.g., OSCTR). Institutional support has been provided by the College of Medicine, Department of Pediatrics, Oklahoma Clinical & Translational Science Institute, and the VPR's Office.
4. Publication and presentation totals rely heavily on retrospective investigator reporting and are likely underestimated. Figures were compiled from self-reports, PubMed and other database searches, and available CVs.
5. Proposal amounts are underestimated for projects that used CRDW data without including direct budget lines for future work. These figures are not systematically tracked and rely on investigator self-report.
6. These include \$2.6M in awarded projects designed and led by the CRDW team to enhance and grow CRDW infrastructure and use. These also include 2 large OSCTR infrastructure renewal grants that cited the CRDW as a key OU resource and post-award, covered general CRDW support to eligible CTR investigators.

When to Use CRDW:
An Epic Tools Comparison Chart

Tool	Primary Function	Process	IRB / CRIOC Requirements
Clinical Research Data Warehouse (CRDW)	Provides curated, customized, research-quality datasets from multiple EHR systems for analysis, discovery, and report / alert automation.	Meet with biostatistics & biomedical informatics experts to define specs; ongoing support as needed.	Include CRDW as IRB data source; if >500 records or data shared outside OUHSC, submit to CRIOC.
Epic Workbench Reports	Real-time Epic queries for patient review & contact.	ServiceNow request → Epic Research Analyst builds report → grant access.	Include OU Health Research & Evaluation in IRB; if sharing data externally, submit to CRIOC.
Epic SlicerDicer	Self-service cohort exploration & basic aggregate analysis .	Select criteria → view aggregate results or export to Workbench; requires IRB# for patient-level	Include self-service review in IRB; if sharing data externally, submit to CRIOC.
Epic Our Practice Advisories (OPAs)	Real-time alerts to providers when patients meet study criteria; prompts provider to obtain interest.	ServiceNow request → Epic Research Analyst builds BPA → automatic alerts/reports.	Include in IRB; if sharing data externally, submit to CRIOC.
Epic Cosmos	National, de-identified Epic dataset for large-scale cohort queries and benchmarking .	Access via Epic interface → filter by demographics, diagnoses, procedures, etc.; view aggregate trends.	No patient-level data; Submit IRB exception for de-identified aggregate use.

CRDW Team is trained to help researchers navigate the best resource pathway for individual project needs.

Appendix A: Funded Projects that Utilized CRDW Resources

- PI Amanda Bogie: BEEPER
- PI Jeanie Tryggestad: The Oklahoma Pediatric Clinical Trials Network
- PI Jeanie Tryggestad: DISCOVERY of Risk Factors for Type 2 Diabetes in Youth
- PI: Bard: Substance Use Treatment and Access to Resources (STARS) Research and Evaluation Project
- PI: Bard: STARS FY22 Supplement: Biobehavioral Measurement Study
- PI: Bard: STARS FY23 Supplement: Health and Well-being Data Warehouse Study
- PI Andrew Bauer: Ruptured Aneurysms Treated with Hydrogel Coils
- PI Yuchen Qiu: Evaluate Ovarian Cancer Prognosis at Early Stage by Fusing Histopathological and Radiographic Imaging Information
- PI Motolani Adedipe: Recruiting Prostate Cancer Patients into PROMISE (Prostate Cancer Registry of Outcomes and Germline Mutations for Improved Survival and Treatment Effectiveness) Trial
- PI Talayeh Razzaghi: CAREER: Personalized Maternal Care Decision Support System for Underserved Populations
- PI Joseph Sassine: IV Ensure in Patients Receiving OPAT
- PI Faizah Bhatti: Risk Factors, Modifiers and Outcomes for Infants with Retinopathy and Visuopathy of Prematurity
- PI Houssein Youness: Biotest 996 ESsCAPE
- PI Joseph Sassine: STEWARDS
- PI Adam Alexander: A Randomized Controlled Trial On Improving Prostate Cancer Screening Among Black Men in Oklahoma Using A Community-Based mHealth Approach (Prostate Cancer Genius App)
- PI Benjamin Miller: Does insulin sensitivity impact the potential of metformin to slow aging?
- PI Adam Alexander: A Pilot Randomized Clinical Trial of a Smartphone-Based Application for Prostate Cancer Education and Home-Based PSA Screening for African American Men
- PI Tarun Dasari: Neuromodulation of Inflammation and Endothelial Function to Treat Elderly Patients with Systolic Heart Failure
- PI Dorothy Rhoades: Native American Navigation Capacity-Building Initiative
- PI Motolani Ogunsanya: Quality of Life of Ethnically Diverse Black Prostate Cancer Survivors: Development of a Conceptual Model Using Grounded Theory
- PI Devon Hahn: “Evaluating the Association Between Opioid Non-tolerance and the Risk of Respiratory Depression as well as Non-fatal and Fatal Overdose in Pediatric Patients Prescribed OxyContin”
- PI Jordan Neil: Assessing the impact of health beliefs and psychological factors on lung cancer screening and intentions in urban and rural settings affected by COVID
- PI Doris Benbrook: Route 66 Endometrial Cancer SPORE
- PI Steven Crawford: RISE-OK Project: Reducing Inappropriate Opioid Use in Seniors in Oklahoma
- PI Bogie Amanda: A Multi-Center Observational Study: The Recover Post Acute Sequelae of SARS-CoV-2 (PASC) Pediatric Cohort Study
- PI Tim VanWagoner: CTR IDeA SARS Cov-2 Network (CICN) to Study Post Acute Sequelae of Cov-2 - University of Oklahoma HSC Site
- PI USMAN BABER: Impella®-Supported PCI in High-Risk Patients with Complex Coronary Artery Disease and Reduced Left Ventricular Function: The PROTECT IV Trial
- PI David Noyd: Equitable Survivorship-focused Care in Oklahoma through Clinical Informatics Tools, Health Information Exchange, and Cardiovascular Risk Assessment
- PI Sydney Martinez: Intestinal Malrotation
- PI Joan Walker: NCI Study Screening for Social Determinants of Health and Interventions to Improve Outcomes in Cancer Patient Population (NCI Solicitation PHS 2021-1 Topic 423 / SBIR Phase I) protocol.
- PI Ganisher Davlyatov: Disparities in Social Determinants of health and Health Outcomes among Oklahomans
- PI Bhrugav Raval: A Long-term Safety Study to Assess the Potential for Chronic Liver Injury in Participants Treated with Epidiolex (Cannabidiol) Oral Solution
- PI Ryan McKee: Hyperhydration to Improve Kidney Outcomes in Children with Shiga Toxin-Producing E. coli Infection: A Multinational Embedded Cluster Crossover Randomized Trial (HIKO STEC Trial)
- PI George Salem: Use of Digital Health Services to Address Health Disparities in Inflammatory Bowel Disease (IBD)
- PI Amy Cohn: Measuring e-cigarette and other tobacco use during pregnancy using ecological momentary assessment
- PI Robert Johnson: Procoagulant Platelets in Pediatric Mild Traumatic Brain Injury: a Prospective Study
- PI Katherine O'Neal: Diabetes and Hearing Impairment: Knowledge, Attitudes, and Practices among Providers and Patients.
- PI Jason Oliver: Beta-Adrenergic Modulation of Drug Cue Reactivity: Neural and Behavioral Mechanisms
- PI Bitar: Study to Evaluate the Efficacy and Safety of Mirikizumab in Patients with Moderately to Severely Active Crohn's Disease
- PI Aaron Wendelboe: CDC-Funded Venous Thromboembolism Project
- PI Doris Benbrook: EIN and Grade 1 endometrial cancer response to progestin
- PI Richard Harty: RPC01-3201
- PI Gaston Ofman: Maternal Antibody Response to SARS-CoV-2 Infection During Gestation
- PI Manzi Akande: Impact of Neighborhood and Individual Social Adversity on Outcomes of Critically-Ill Children with Medical Complexity
- PI Paul Darden: VDORA
- PI Deirdra Terrell: Addressing Epidemiologic Gaps in Immune Thrombocytopenia: Pregnant and African American Patients
- PI Paul Darden: "A Nationally Representative Drug Utilization Study of OxyContin in Children Aged 17 Years or Younger"
- PI David Noyd: ASCO YIA - Integration of Cancer Registry and EHR Data to Implement Cardiovascular Risk Stratification of Childhood Cancer Survivors and Identify Disparities in Follow-Up Care
- PI Richard Harty: AMAM
- PI Lieschen Quiroz: Composur, A Patient-centric, Phase IV, Open-label, Prospective, Real World US Study to Evaluate Vibegron on Patient Treatment Satisfaction, Quality of Life, and Healthcare Resource Utilization in Overactive Bladder
- PI Alexandria Caldwell: MoVeUP
- PI Zain Ul Abideen Asad: Transform Afib
- PI Thahn Bui: Promoting Human Papillomavirus Vaccine Uptake in High-Risk Adults Short title: Uptake 2
- PI David Bard: National COVID Cohort Collaborative - Oklahoma Site
- PI Ken Jones: Using Machine Learning Models to Quantify Molecular Phenotypes and Personalized Therapeutic Strategies for Diabetic Patients.
- PI Theodore Wagener: Electronic Cigarettes in Youth with Asthma
- PI Adon Rosen: Trends In Adolescent Suicide Attempts During The Onset Of A Global Pandemic, And The Protective Factors Of School Based Socialization

Appendix A: Funded Projects that Utilized CRDW Resources continued

- PI Christine Allen: Stress Hydrocortisone in Pediatric Septic Shock (SHIPSS)
- PI: H. Chaaban: Biomarkers for Necrotizing Enterocolitis
- PI Emilie Henry: PROSpect Study
- PI Sowmya Krishnan: Bone Health
- PI Arpan Sinha: HRTW Sickle Cell Disease Transition Program
- PI Paul Darden: "Pharmacokinetics of Understudied Drugs Administered to Children per Standard of Care (POPS01)"
- PI Paul Darden: OPCTN
- PI Christine Allen: POPS02: Pharmacokinetics of Understudied Drugs Administered to Children per Standard of Care (2nd iteration)
- PI James Couch: 4. TITLE AND SUBTITLE Development of Unique Serum Biomarkers with Mass spectroscopy for Diagnosis of Veterans with Chronic Posttraumatic Headache
- PI David Chong: Treatment of Meralgia Paresthetica in Children and Adolescents
- PI David Chong: Surgical Complications in Patients with Spinal Muscular Atrophy
- PI Amgad Haleem: Osteochondral Lesions (OCLs) of Talus Under 15 mm Square: MF Vs MF+BMAC
- PI Laura Holman: Retrospective Bariatric Surgery and Endometrial Cancer
- PI Sheila Algan: Prism Registry
- PI David Chong: Serial Casting vs. Operative Lengthening of Ankle Equinus Contractures in Children
- PI Mary Williams: Post COVID-19 Condition Among OU COVID-19 patients: A Cross-sectional Study Using EHR and Patient Self-Reported Health Data
- PI Amgad Haleem: Osteochondral Lesions (OCLs) of Talus Under 15 mm Square: MF Vs MF+BMAC
- PI David Chong: Demographics of Pediatric and Adolescent Discoid Lateral Meniscus
- PI Thomas Lewis: Tibialis Anterior Tendon Transfer for Clubfoot Deformity: Cuboid versus Third Cuneiform Transfer
- PI Amgad Haleem: A Retrospective Comparison of Synthetic Cartilage Implant Versus Osteochondral Autologous Transfer for Advanced Hallux Rigidus
- PI Joseph Davey: Anterior versus medial open reduction in children with cerebral palsy undergoing hip reconstruction
- PI Thomas Lewis: Open Reduction with Internal Fixation of Unstable Slipped Capital Femoral Epiphysis
- PI Yuri Lansinger: The Role of Acute-Phase Reactant Trends in Diagnosis and Monitoring of Operatively Treated Hand and Upper Extremity Infections
- PI David Chong: Age Related Sensitivity of Magnetic Resonance Imaging in Detecting Neuro-Axial
- Abnormalities in Congenital Scoliosis Patients
- PI Charles Pasque: Autologous Bone Peg Fixation in Patients with Osteochondritis Dissecans of the Knee: A Case Series
- PI David Chong: Age Related Sensitivity of Magnetic Resonance Imaging in Detecting Neuro-Axial Abnormalities in Congenital Scoliosis Patients
- PI Joseph Davey: Elbow Dislocations in Children - The Impact of a Medial
- Epicondyle Humerus Fracture
- PI William Puffinbarger: Does Routine Medial Pin Placement for Supracondylar Humerus Fracture Fixation Lead to Less Ulnar Nerve Issues?
- PI Amgad Haleem: Assessing Risk for DVT/PE in COVID Positive Patients Undergoing Orthopedic Surgeries
- PI Ryan Nipp: Using a Virtual Health Insurance Navigation Program to Understand and Improve Health Insurance Coverage
- PI John Yingling: Traumatic Hip Dislocation: Is Immediate Weight Bearing Safe After Successful Reduction? A Multicenter Retrospective Analysis
- PI Ryan Nipp: Symptom Assessment for Hospitalized Patients with Cancer
- Original PI Tripathi / Current PI Naqash: ORIEN (Currently under Naqash)
- PI Meyer Jonathan: A Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Safety and Efficacy of Crinecerfont (NBI-74788) in Adult Subjects with Classic Congenital Adrenal Hyperplasia, Followed by Open-Label Treatment
- PI Zain Ul Abideen Asad: TRANSFORM HFrEF
- PI Marjorie Makoni: Pattern of systemic artery dopplers in relation to directionality and magnitude of patent ductus arteriosus shunt.
- PI Charron, Elizabeth: Postpartum Recovery from Opioid Use Disorder through Daily Acceptance and Commitment Therapy (PROUD2ACT)
- PI Kevin Salomon: Comparison of a Dual-Surgeon versus Single-Surgeon Approach for Non-AIS Surgery
- PI Kevin Salomon: Evaluating the Biomechanical Stability and Clinical Effectiveness of Different Proximal Fixation Methods in the MAGEC Rod System for Early-Onset Scoliosis

Appendix B – Grant Proposals Citing CRDW as Key OU Resource

- PI Kisha Beg: Long-term outcomes of patients with neonatal thrombosis
- PI Ikuyo Yamaguchi: The Study of the Epidemiology of Pediatric Hypertension (SUPERHERO) Registry-Retrospective Cohort
- PI Sarah Durica: Prescribing Patterns for Seizure Rescue Medications
- PI Aaron Wendelboe: Clinical characteristics and risk factors for severe disease in pediatric COVID-19 cases hospitalized at a major children's hospital in Oklahoma
- PI Catherine Hunter: Patterns of NEC incidence in food deserts of Oklahoma
- PI Stephanie Brown: Patterns of Clinical Deterioration in Critically Ill Children
- PI Marjorie Makoni: Description of Dexmedetomidine dosing in neonates and its impact on sedation, pain scores, cardiovascular system and respiratory status
- PI Erynn Bergner: Comparison of Formula versus Donor Human Milk Supplementation in the Treatment of Neonatal Hypoglycemia: A Retrospective Analysis
- PI Susan Bedwell: CHNC Database
- PI Catiele Antunes: A Multicenter Retrospective Analysis of Esophageal Lichen Planus
- PI Rachad Mhawej: Targeted Prophylactic Gastrostomy Tube Placement in Head and Neck Cancer Patients
- PI Jose Sanclement: Effect of suturing tonsil pillars following tonsillectomy to reduce postoperative hemorrhage
- PI Yashas Nathani: Diagnostic Testing in Youth Presenting to the Emergency Department with Psychosis: A PEMCRC Network Study
- PI Amanda Bogie: Variability in the Management of Infants aged 29 - 89 Days presenting to the Pediatric Emergency Department with Fever
- PI Vamsi Kaliki: Disparities in the Management of Febrile Infants at Low-Risk for Invasive Bacterial Infection
- PI Laura Holman: Telemedicine use among gynecologic oncology patients.
- PI Jooyeon Hwang: Environmental exposure to pollen and air pollution on children's wellbeing in Oklahoma
- PI Rusha Patel: Sarcopenia and Cachexia in Total Laryngectomy Patients
- PI Yong-Mi Kim: Discovering Health Outcomes from Medication-Assisted Treatments (MAT) for Opioid: Data Mining Techniques
- PI Jamie Laughy: Reducing Excessive Variability in Infant Sepsis Evaluation - REVISE II
- PI Ami Bax: NeuroDevelopmental Outcomes in Children after Cardiac Surgery
- PI Amanda Bogie: Pfizer Clinical Trial (confidential) - need feasibility assessment
- PI Borders Jack: Follow up of failed NBHS in Oklahoma
- PI Robert Katz: Impact on therapy for Spinal Muscular Atrophy (SMA) on hospitalizations for patients with SMA: A retrospective review.
- PI Amanda Bogie: Disparities in the Management of Febrile Infants at Low-Risk for Invasive Bacterial Infection: Pediatric Emergency Medicine Collaborative Research Committee Sponsored Study
- PI Alberto de Armendi: The Effects of Anesthesiology on Infantile Hypertrophic Pyloric Stenosis.
- PI Rachad Mhawej: Retrospective Evaluation of the effects of Head and Neck Cancer Diagnoses, Treatment Paradigms, and Comorbidities on Patient Mental Health
- PI Shashank Behere: Barriers to approval for wearable cardioverter defibrillators in pediatric patients
- PI Zsolt Nagykaldi: LONG-COVID EHR STUDY
- PI Evgeny Sidorov: Validation of Computed Tomography Angiogram in Determining Aortic Arch Plaque in Acute Ischemic Stroke
- PI Lindsey Collins: Pleomorphic Dermal Sarcoma: A Case Series at a Single Academic Institution
- PI Jonathan Heinlen: Relationship Between Pretreatment Anxiety/Depression and Patient Decision-Making in Prostate Cancer Treatment
- PI Chao Xu: Prevalence of Dermatomyositis in Oklahoma
- PI Stephanie Pierce: Effect of Intrapartum Antibiotic Prophylaxis for Group B Streptococcus on Cesarean Delivery Rate
- PI Sarah Durica: Assessing Bias in the Diagnosis of Psychogenic Non-Epileptic Spells (PNES)
- PI Faddi Saleh-Velez: Anti-Thrombotic Therapy for Stroke Prevention in Cervical Artery Dissection (STOP-CAD)
- PI Jorge Ortiz-Garcia: Factors influencing the decision to start antiplatelet therapy or anticoagulation in patients with embolic stroke of undetermined source (ESUS)
- PI Bhrugav Raval: Comparing status epilepticus treatment in our hospital to standard AES guidelines.
- PI Fahd Sultan: Lacosamide use in patients with refractory status epilepticus, is it a good option? And what's our practice like?
- PI Rusha Patel: This study is a quality improvement initiative that looks at the incidence of vocal cord paralysis after intubation and patient factors that may relate to the above event.
- PI Vadim Ivanov: Impact of Meconium Exposure on Bowel Injury and Gastroschisis Outcomes
- PI Amanda Bogie: Feasibility Assessment to Determine Participation in Study of AIRSUPRA (albuterol/budesonide) for adolescents 12-17 years old and 4-11 years old
- PI Ryan Nipp: Understanding the Care Experience of Hospitalized Patients with Cancer
- PI Vadim Ivanov: Impact of Meconium Exposure on Bowel Injury and Gastroschisis Outcomes
- PI Kisha Beg: Incidence, Characteristics and Outcome of Recurrent Catheter-Associated Arterial and Venous Thrombosis in Children with Congenital Heart Disease.
- PI Faddi Saleh Velez: Neurovascular related cognitive decline and prevalent risk factors
- PI Ami Bax: Do toddlers subjected to COVID-19 pandemic precautions exhibit diminished developmental functioning compared to toddlers not subjected to pandemic precautions?
- PI Zsolt Nagykaldi: Using Natural Language Processing to Analyze Long-COVID Patient Notes
- PI Laura Holman: Cervical cancer after age 65
- PI (Daniel) Rowdy Anthony: Hospital Emergency Operations Plan: A Disaster or Steady State Function?
- PI Lieschen Quiroz: Concomitant urogynecology and Gynecologic oncology procedures
- PI Jamie Laughy: Improving Mental Health Processes, Workflows & Responses (IMPWR)
- PI Judith Liu: Impact of New Weight Loss Drugs on Health Outcomes
- PI Mark Mims: Utilization of Cryopreserved Umbilical Tissue for Closure of Complicated Cranial Wounds
- PI Colin Fuller: Prospective Survey Measuring the Quality-of-Life Impact of Vascular Malformations in the Pediatric Patient

Appendix B – Grant Proposals Citing CRDW as Key OU Resource continued

- PI Andrew Bauer: Stroke Thrombectomy and Aneurysm Registry (STAR)
- PI Phillion Hoff: Prescribing Patterns for Seizure Rescue Medications
- PI Judith Liu: Impact of New Weight Loss Drugs on Health Outcomes
- PI Judith Liu: Impact of New Weight Loss Drugs on Health Outcomes
- PI Alisa Cross: Development and Implementation of a Data-driven Institutional Protocol for the Treatment of Choledocholithiasis
- PI Neha Gupta: Evaluating the Clinical Utility of CRP and Procalcitonin for Bacteremia in Pediatric Patients
- PI Alisa Cross: Hyperglycemia as a Predictor of Surgical Site Infection Among Trauma Patients Undergoing Gastrointestinal Surgery
- PI Adam Hare: Urogynecology Visit Type: Does Gender Concordance Make a Difference
- PI Courtney Houchen: A Retrospective Study to Identify Markers of Type II Inflammation and Tuft Cells in Patients with Eosinophilic Esophagitis (EoE)
- PI Nirmal Choradia: Retrospective Assessment of the Method of Diagnosis for Cancers with Approved Screening
- PI Ryan Nipp: Insurance Denials in Cancer Care
- PI Claire Delpirou Nouh: Acetazolamide Exposure Association with risk for Alzheimer's Disease
- PI Amanda Bogie: BREATHE
- PI Paul Darden: iAmHealthy (<https://github.com/OuhscBbmc/prairie-outpost-selection/issues/17>)
- PI Hanaoak: Rheumatoid Arthritis (feasibility for R01 application)
- PI Mark Mims: Antibiotic Guidelines for Pediatric Facial Trauma
- PI Aizhan Karabukayeva: Preliminary Analysis of Demographic and Clinical Characteristics in Adults with Autosomal Dominant Polycystic Kidney Disease (ADPKD) in Oklahoma
- PI Rwoof Reshi: SAMI

Appendix C – Grants with CRDW written into budget

- PI Manzilat Akande: Impact of Neighborhood and Individual Social Adversity on Outcomes of Critically-ill Children with Medical Complexity
- PI Kun Lu: Fine-tune and localize generative Large Language Model (LLM) for a unified Natural Language Processing (NLP) system for clinical applications
- PI Manzilat Akande: Children with Medical Complexity: A Mixed-Method Study of Factors Influencing Primary Care Use and Delivery After Critical Illness
- PI Manzilat Akande: Social and Provider Influences on Health Outcomes After Pediatric Critical Illness in Children with Medical Complexity
- PI Paul Darden: The Oklahoma Pediatric Clinical Trials Network
- PI Aaron Wendelboe: PIPP Phase II: Theme 2: Early Prediction of Infectious Diseases with Enhanced Modeling and Integrative Collaborations (EPIDEMIC)
- PI Amy Wisniewski: Long-Term Outcomes of Intervention for Reproductive Dysfunction: Continence, Behavioral Outcomes, and Novel Predictors of Brain Masculinization
- PI Christan Gant: AIM-AHEAD Coordinating Center: Artificial Intelligence/Machine Learning Consortium to Advance Health Equity and Researcher Diversity
- PI Michael Cooper: Examining population level relationships of caregiver Adverse Childhood Experiences (ACEs) and pediatric health outcomes using Bayesian inferential techniques to augment spatially discontinuous data
- PI Sydney Martinez: The Power of Patients: Exploring the Use of Patient-Generated Data to Examine a Rare Disease
- PI Talayeh Razzaghi: CAREER: Fair Learning from Massive Imbalanced Data for Women's Health
- PI Talayeh Razzaghi: CAREER: Personalized maternal care decision support system for underserved population
- PI Jeanie Tryggestad: Metabolic And Glycemic Indices in Children with youth-onset type 2 Diabetes Mellitus (MAGIC DM)
- PI David Noyd, Amanda Janitz: Equitable Survivorship - Focused Care in Oklahoma Through Clinical Informatics Tools
- PI David Noyd: Rural Telementoring and Informatics Tools for Equitable Survivorship Care
- PI David Noyd: Integration of Cancer Registry and EHR Data to Implement Cardiovascular Risk Stratification of Childhood Cancer Survivors and Identify Disparities in Follow-up Care
- PI David Noyd: Informatics Tools for Equitable Care of Young Cancer Survivors Across Oklahoma, OSCTR
- PI David Noyd: Informatics Tools for Equitable Care of Young Cancer Survivors Across Oklahoma, American Cancer Society
- PI David Noyd: Equitable Survivorship-focused Care in Oklahoma through Clinical Informatics Tools, Health Information Exchange, and Cardiovascular Risk Assessment
- PI David Noyd: Rural Telementoring and Informatics Tools for Equitable Survivorship Care
- PI Paul Spicer: Oklahoma Center for Climate Change and Health
- PI Javier Jo: Oklahoma Center of Medical Imaging for Translational Cancer Research
- PI Amanda Bogie: Regional Pediatric Pandemic Network
- PI David Bard: The Health and Economic Impact of a New Multidisciplinary Clinic to Treat Infective Endocarditis (IE) due to Intravenous Drug Use
- PI Amanda Bogie: A Multi-Center Observational Study: The Recover Post Acute Sequelae of SARS-CoV-2 (PASC) Pediatric Cohort Study
- PI David Bard: A Comparative Pilot of Manual vs. LLM-Augmented Abstraction for Clinical Imaging Reports
- PI Ryan Nipp: Research, Healthcare implementation and AI, Infrastructure and resources
- PI Faizah Bhatti: Piloting DLM Augmented Algorithms for Early Prediction of Sepsis and Adverse Events in a Level IV Neonatal Intensive Care Unit
- PI Arnold Kanagwa: Predicting 30-Day Unplanned Hospital Readmissions Using Machine Learning: From Model Development to Deployment
- PI David Bard: Substance Use Treatment and Access to Resources (STARS)
- PI David Bard: Extend and Promote Real-World Data Science Applications in Oklahoma
- PI David Bard: OUHSC Continued Participation and Leadership in the National COVID Cohort Collaborative
- PI David Bard: Advancing the Use of Electronic Health Records in Research Via FHIR-Enabled Applications
- PI Adon Rosen: Trends In Adolescent Suicide Attempts During The Onset Of A Global Pandemic, And The Protective Factors Of School Based Socialization
- PI Judith James: Oklahoma Shared Clinical and Translational Resources (OSCTR) - Renewal 1
- PI Judith James: Oklahoma Shared Clinical and Translational Resources (OSCTR) - Renewal 2

Appendix D – Student Projects

- Post COVID-19 Condition Among OU COVID-19 patients: A Cross-sectional Study Using EHR and Patient Self-Reported Health Data
- Diagnosis, Treatment, and Outcomes of Intestinal Malrotation
- Clinical characteristics and risk factors for severe disease in pediatric COVID-19 cases hospitalized at a major children's hospital in Oklahoma
- Prevalence of Dermatomyositis in Oklahoma
- Addressing Epidemiologic Gaps in Immune Thrombocytopenia: Pregnant and African American Patients
- Examining the association between perinatal anesthesia and neonatal long QT
- Impact of bacterial infection treatment with piperacillin-tazobactam compared to cefepime on morbidity of hospitalized patients with heart failure
- Assessing Provider's perceptions of metformin place in therapy with growing utilization of GLP-1 receptor agonist and SGLT-2 inhibitors and prescribing patterns
- SSRI use in patients with Meningioma Recurrence: Is there a link?
- Steroids in Brain Neoplasms
- Retrospective Evaluation of the Efficacy of Depression screening and Social Services in Head and Neck Cancer Diagnosis
- Characterization of the Institutional Clinical Practice for Treatment of CAP in Children at the Oklahoma Children's Hospital
- Pleomorphic Dermal Sarcoma: A Case Series at a Single Academic Institution
- Rare Tumors Multi-site study
- Title: Chart Review in Cutaneous T-Cell Lymphoma
- The Price of Deficient Behavioral Health on Pediatric Emergency Department
- Post tonsillectomy bleeds
- A Multicenter Retrospective Analysis of Esophageal Lichen Planus
- Patient and Physician Modality Preferences for Home Peripheral-Artery Disease Rehabilitation
- Evaluation of the prognostic accuracy of the LENT score among patients with malignant pleural effusion when treatment includes immunotherapy or targeted molecular therapy
- Severe Neurologic Injury Outcomes during COVID 19 Crisis (NCC COVID 19 OUTCOMES)
- Migraine and Primary Dysmenorrhea in Adolescence
- Prescribing Patterns for Seizure Rescue Medications
- Validation of Computed Tomography Angiogram in Determining Aortic Arch Plaque in Acute Ischemic Stroke
- Lacosamide use in patients with refractory status epilepticus, is it a good option? And what's our practice like?
- Thyroid hormones effects in acute ischemic stroke (AIS): possible clinical application.
- Comparative efficacy of direct oral anticoagulants, warfarin, and antiplatelet agents in patients with reduced ejection fraction after stroke: A multicenter retrospective study
- Use of Osmotic Agents in Malignant Middle Cerebral Artery Stroke (SAMI - Sodium in Acute Middle cerebral artery Ischemia)
- Lacosamide use in patients with refractory status epilepticus, is it a good option? And what's our practice like?
- Title of Project: Nursing Led Rounds in the Neurosciences Intensive Care Unit.
- Prescribing Patterns for Seizure Rescue Medications
- Pituitary Adenoma Patient Outcomes
- Retrospective Traumatic Brain Injury Post-Protocol Cost Analysis at Oklahoma Children
- Complication rates for ventricular shunts placed after endoscopic third ventriculostomy
- Frame versus Mask-based Gamma Knife Radiosurgery: A Medical Center's Retrospective Review on Brain Metastases and Radiation Necrosis
- fPCA Risk Factor for Endovascular Therapy: A Retrospective Study
- Titanium Mesh Cranioplasty - Retrospective Study
- Stroke Thrombectomy and Aneurysm Registry (STAR)
- Tobacco and Marijuana Exposure among Youth with Asthma: Health Correlates and Intergenerational Pathways
- Incidence and Risk Factors of Nonsteroidal Anti-Inflammatory Drug (NSAID) Use in Post-Operative Patients After the Oklahoma Senate Bill 1446 Limiting the Prescription of Narcotics for Acute Pain
- Comparison of Formula versus Donor Human Milk Supplementation in the Treatment of Neonatal Hypoglycemia: A Retrospective Analysis
- Improving intubation success rates of difficult airway patients in the Neonatal ICU
- A survey-based study examining caregiver perceptions and understanding of epilepsy genetic testing at OU Health Physician's Pediatric Neurology
- Correlation of Electroencephalographic (EEG) and Neuro-imaging findings and Clinical Outcome in Acute Non-infectious and Infectious Encephalitis patients.
- Prevalence and significance of Multiple Hypercoagulable Conditions in Cerebral Venous Thrombosis: 12-years of Experience in a Referral Center.
- The Health and Economic Impact of a New Multidisciplinary Clinic to Treat Infective Endocarditis (IE) Due to Intravenous Drug Use (IDU)
- Follow up of failed NBHS in Oklahoma
- Alcohol Withdrawal Management Guideline Implementation in a Trauma Intensive Care Unit: A Quality Improvement Project
- Impact on therapy for Spinal Muscular Atrophy (SMA) on hospitalizations for patients with SMA: A retrospective review.
- Medical Management of Orbital Cellulitis
- Ipsilateral Orthopedic Injuries on Rate of Femoral Shaft Fracture Union
- Laminoplasty v Laminectomy v Posterior Spinal Fusion: A Retrospective Review
- Multi-Level Cervical Fusion: A Retrospective Review
- A Survey-Based Study Examining the Understanding and Perceptions of Genetic Counselors and Military Affiliated Individuals Regarding the Informed Consent Process for Clinical Genetic Testing.
- Pilot to determine potential effect of implementation of a standardized template for handover on ICU readmissions
- Minimally invasive microdebrider sculpting of paramedian forehead flaps
- Randomized Controlled Trial of IN Dexmedetomidine vs IN Midazolam vs IN Ketamine evaluating anxiolysis during minimal procedures in pediatric population in pediatric emergency department.
- External Validation of an AI-Based ECG Tool to Identify Cardiomyopathy in Women of Reproductive Age
- Fetal Growth Restriction: Historical Cohort Study Evaluating Diagnostic Performance and Resource Utilization of Three Methods
- Concomitant urogynecology and Gynecologic oncology procedures
- Cervical cancer after age 65
- Examining menstrual suppression method choice and continuation rates in adolescents with disabilities.
- Impact of glucose tolerance status on fetal growth trajectories in individuals with class III obesity
- Treatment of Meralgia Paresthetica in Children and Adolescents
- Surgical Complications in Patients with Spinal Muscular Atrophy
- Osteochondral Lesions (OCLs) of Talus Under 15 mm Square: MF Vs MF+BMAC
- Prism Registry

Appendix D – Student Projects continued

- Serial Casting vs. Operative Lengthening of Ankle Equinus Contractures in Children
- Increased Incidence of Leg Length Discrepancy in Unilateral Blount's Children Undergoing Guided Growth
- Demographics of Pediatric and Adolescent Discoid Lateral Meniscus
- Osteochondral Lesions (OCLs) of Talus Under 15 mm Square: MF Vs MF+BMAC
- Demographics of Pediatric and Adolescent Discoid Lateral Meniscus
- Tibialis Anterior Tendon Transfer for Clubfoot Deformity: Cuboid versus Third Cuneiform Transfer
- A Retrospective Comparison of Synthetic Cartilage Implant Versus Osteochondral Autologous Transfer for Advanced Hallux Rigidus
- Anterior versus medial open reduction in children with cerebral palsy undergoing hip reconstruction
- Open Reduction with Internal Fixation of Unstable Slipped Capital Femoral Epiphysis
- The Role of Acute-Phase Reactant Trends in Diagnosis and Monitoring of Operatively Treated Hand and Upper Extremity Infections
- Age Related Sensitivity of Magnetic Resonance Imaging in Detecting Neuro-Axial Abnormalities in Congenital Scoliosis Patients
- Autologous Bone Peg Fixation in Patients with Osteochondritis Dissecans of the Knee: A Case Series
- Age Related Sensitivity of Magnetic Resonance Imaging in Detecting Neuro-Axial Abnormalities in Congenital Scoliosis Patients
- Elbow Dislocations in Children – The Impact of a Medial Epicondyle Humerus Fracture
- Does Routine Medial Pin Placement for Supracondylar Humerus Fracture Fixation Lead to Less Ulnar Nerve Issues?
- Assessing Risk for DVT/PE in COVID Positive Patients Undergoing Orthopedic Surgeries
- Traumatic Hip Dislocation: Is Immediate Weight Bearing Safe After Successful Reduction? A Multicenter Retrospective Analysis
- Compression versus Traditional Hemiepiphysiodesis
- Comparison of Outcomes for Operative and Nonoperative Management of GSW Humerus Fractures: A Multicenter Retrospective Study
- Laminoplasty v Laminectomy v Posterior Spinal Fusion: A Retrospective Review
- Surgical Delay Secondary to Glucagon-Like Peptide-1 Receptor Agonist Effects on Gastric Motility: a Retrospective Analysis of Orthopedic Surgery Patients
- Reverse Total Shoulder Arthroplasty for Locked Posterior Shoulder Dislocations
- Multicenter Evaluation of Open Distal Radius Fractures
- Diagnostic reliability of magnetic resonance imaging for adolescent patients with patellar instability
- Risk Factors of Late-Presenting Developmental Dislocation of the Hip, a Retrospective Review
- Comparison of Operative and Nonoperative management of Early Onset Scoliosis: A Single Institution Retrospective Review
- Comparison of a Dual-Surgeon versus Single-Surgeon Approach for Non-AIS Surgery
- Comparison of Nonoperative Management versus Percutaneous Posterior Spinal Fusion with Instrumentation versus Open Posterior Spinal Fusion with Instrumentation of AO B2 Fractures of the Thoracolumbar Spine in Neurologically Intact Patients
- Single Institution Retrospective Review
- Evaluating Risk Factors for Symptom Onset in Leg Length Discrepancy: A Retrospective Analysis
- Retrospective Evaluation of Post-Operative Fluid Administration in Microvascular Free-Flap Reconstruction of the Head and Neck
- Tracheal stenosis uptick resulting from increased intubation number due to coronavirus-19 (COVID-19): a retrospective chart review
- Utilization of Cryopreserved Umbilical Tissue for Closure of Complicated Cranial Wounds
- Effect of suturing tonsil pillars following tonsillectomy to reduce postoperative hemorrhage
- Prospective Survey Measuring the Quality-of-Life Impact of Vascular Malformations in the Pediatric Patient
- Early Postoperative PTH determination as predictor for post-thyroidectomy hypocalcemia
- Occult Neck Metastasis In Salvage laryngectomy: a road map for superselective neck dissection
- Effect of Suturing Tonsil Pillars Following Tonsillectomy to Reduce Postoperative Hemorrhage
- Acute Anosmia in Patients with COVID-19
- Safety and Efficacy of Area-Under-the-Curve versus Trough-Based Vancomycin Dosing Strategies in Patients with Obesity
- Safety and Efficacy of Direct Oral Anticoagulants in Patients with Advanced Liver Disease
- Barriers to approval for wearable cardioverter defibrillators in pediatric patients
- Needle-Free Jet Injection Versus Traditional Needle Infiltration for Local Anesthesia in Infant Lumbar Puncture
- Procalcitonin in Necrotizing Enterocolitis: The Search for a Biomarker
- Vasoplegic Syndrome in Pediatric Patients with Congenital Heart Disease
- Access to Primary Care for Children with Medical Complexity
- Impact of Neighborhood Factors on Hospital Admission Rates for Children Living with Asthma in Oklahoma
- Average Age of Genetic Testing for BRCA Gene in Patients Between 2010-2019
- Stress Hydrocortisone in Pediatric Septic Shock (SHIPSS)
- Description of Dexmedetomidine dosing in neonates and its impact on sedation, pain scores, cardiovascular system and respiratory status
- Diagnostic Testing in Youth Presenting to the Emergency Department with Psychosis: A PEMCRC Network Study
- Mitochondrial Dysfunction as a Cause of Prematurity Associated Cardiac Disease in Preterm Infants: An Observational Cross-Sectional Pilot Study
- Pediatric Dental Emergencies
- Improving Rates of Identifying Pediatric Hypertension in the Primary Care Setting
- A Retrospective Review of Pediatric Tetrahydrocannabinol Exposures Reported to A State Poison Control Center and Presenting to a Pediatric Emergency Department
- Real-world utility of home rhythm monitors in arrhythmia detection
- Impact of Neighborhood and Individual Social Adversity on Outcomes of Critically-Ill Children with Medical Complexity
- Variability of G-tube usage in pediatric ED patients
- The Study of the Epidemiology of Pediatric Hypertension (SUPERHERO) Registry-Retrospective Cohort
- Association of Medical Insurance, Demographics and Geography on Prenatal Detection of Congenital Heart Disease and Subsequent Impact on Morbidity and Mortality
- Association Between Remdesivir and Length of Stay in Pediatric Inpatients with COVID-19
- Utility of the ESPGHAN biopsy sparing guidelines for celiac disease in children – Is it applicable in pediatric population in Oklahoma?
- Cost and Time Saving Using Metered Dose Inhaler vs Nebulized Albuterol
- New Febrile Infant Guidelines: Implementation and Results of a Local Practice in Regards to Urinalysis and Culture
- Presentations for accidental marijuana ingestions before and after State Law 788 approval
- Incidence, Characteristics and Outcome of Recurrent Catheter-Associated Arterial and Venous Thrombosis in Children with Congenital Heart Disease.
- A retrospective review of urogenital trauma presentation and management
- The Prognostic Value of the Hemogram in Adults with Congenital Heart Disease
- Do toddlers subjected to COVID-19 pandemic precautions exhibit diminished developmental functioning compared to toddlers not subjected to pandemic precautions?

Appendix D – Student Projects continued

- Improving Mental Health Processes, Workflows & Responses (IMPWR)
- Evaluating current practice and outcomes of feeding with children on high flow nasal cannula
- Deprescribing montelukast throughout transitions of care
- Levels of Distress in Cancer Patients Pre and Post COVID-19
- Oncologic Outcomes in Renal Cell Carcinoma
- Telemedicine use among gynecologic oncology patients.
- Retrospective Bariatric Surgery and Endometrial Cancer
- Gastrostomy Tube vs Nasogastric Tube Complications in Pediatric Patients with Congenital Heart Disease
- Patterns of NEC incidence in food deserts of Oklahoma
- Development and Implementation of a Data-driven Institutional Protocol for the Treatment of Choledocholithiasis
- Circumcision Complications Requiring Surgical Revision: A Comparison Between Pediatric Urology and Other Health Care Providers
- Oncologic Outcomes in Renal Cell Carcinoma
- Relationship Between Pretreatment Anxiety/Depression and Patient Decision-Making in Prostate Cancer Treatment
- Perioperative Blood Pressure Management in Pheochromocytoma: Protocol for Use of Terazosin
- IRB 9586 - Oncologic Outcomes in Renal Cell Carcinoma
- Trends In Adolescent Suicide Attempts During The Onset Of A Global Pandemic, And The Protective Factors Of School Based Socialization

Appendix E – Published Manuscripts

- South AM, Giammattei VC, Bagley KW, Bakhoun CY, Beasley WH, Bily MB, et al. The Study of the Epidemiology of Pediatric Hypertension Registry (SUPERHERO): rationale and methods. *Am J Epidemiol.* 2024;193(12):1650–1661. doi:10.1093/aje/kwae116.
- Foote DC, Miller JL, Skrepnek GH, Neely S, Bennett K, Boylan PM. Montelukast deprescribing in outpatient specialty clinics: a single center cross-sectional study. *Explor Res Clin Soc Pharm.* 2024;16:100509. doi:10.1016/j.rcsop.2024.100509.
- Scott B, Sassine J, Gordon O, Agudelo Higuaita NI. Coccidioidomycosis in Oklahoma: a retrospective case series. *Mycoses.* 2024;67(5):e13749. doi:10.1111/myc.13749.
- Loeffler KA, Behere SP, Williams PK, Nakamura Y, Burkhart HM, Campbell MD. Reduced morbidity with early surgical ligation of patent ductus arteriosus in extremely low birth weight infants: a retrospective single-centre study. *Cardiol Young.* 2024;34(6):1279–1284. doi:10.1017/S1047951123004432.
- Guidry CM, Siegrist EA, Neely SB, Springer L, White BP. Rates of acute kidney injury utilizing area under the concentration–time curve versus trough-based vancomycin dosing strategies in patients with obesity. *Open Forum Infect Dis.* 2025;12(4):ofaf205. doi:10.1093/ofid/ofaf205.
- Brown SR, Assy J, Anderson MP, Thiagarajan RR, Brogan TV. Outcomes after respiratory extracorporeal life support in teens and young adults: an extracorporeal life support organization registry analysis. *Crit Care Med.* 2024;52(1):11–19. doi:10.1097/CCM.0000000000006049.
- Noyd DH, Janitz AE, Baker AA, Beasley WH, Etzold NC, Kendrick DC, Oeffinger KC. Rural, large town, and urban differences in optimal subspecialty follow-up and survivorship care plan documentation among childhood cancer survivors. *Cancer Epidemiol Biomarkers Prev.* 2023;32(5):634–641. doi:10.1158/1055-9965.EPI-22-0966.
- Anzalone AJ, Bard DE, Beasley WH, et al. Building a collaborative ecosystem across the IDeA-CTR networks in response to a public health emergency. *J Clin Transl Sci.* 2025;1–42. doi:10.1017/cts.2025.10098.
- Anzalone AJ, Sun J, Vinson AJ, Beasley WH, Hillegass WB, Murray K, et al; National COVID Cohort Collaborative (N3C) Consortium. Community risks for SARS-CoV-2 infection among fully vaccinated US adults by rurality: a retrospective cohort study from the National COVID Cohort Collaborative. *PLoS One.* 2023;18(1):e0279968. doi:10.1371/journal.pone.0279968.
- Anzalone AJ, Beasley WH, Murray K, Hillegass WB, Schissel M, Vest MT, et al. Associations between COVID-19 therapies and outcomes in rural and urban America: a multisite, temporal analysis from the Alpha to Omicron SARS-CoV-2 variants. *J Rural Health.* 2025;41(1):e12857. doi:10.1111/jrh.12857.
- Janitz AE, Barber R, Campbell JE, Xu C, Pokala HR, Blanchard J, McNall-Knapp RY. Measuring disparities in event-free survival among children with acute lymphoblastic leukemia in an academic institute in Oklahoma, 2005–2019. *Cancer Epidemiol.* 2022;81:102275. doi:10.1016/j.canep.2022.102275.
- Noyd DH, Bailey A, Janitz A, Razzaghi T, Bouvette S, Beasley W, et al. Rurality, cardiovascular risk factors, and early cardiovascular disease among childhood, adolescent, and young adult cancer survivors. *J Adolesc Young Adult Oncol.* Published online 2025. doi:10.1089/jayao.2024.0151.
- Nguyen M, Mohammad-Zadeh A, Krempl G, Razaq M, Collins L, Zahoor T, Henson C. Merkel cell carcinoma: treatment and outcomes over a ten-year period at a high-volume academic center. *Int J Dermatol.* 2022;61(12):1487–1492. doi:10.1111/ijd.15759.
- DeLetter A, Stafford L, Rosen AFG. Seeking care for suicidal thoughts and actions: how COVID affected our pediatric patients. *JAACAP Open.* 2025;S2949–7329(25)00049–3. doi:10.1016/j.jaacap.2025.04.009.
- Allen C, Garbe C, Lees J, Aziz A, Chaaban H, Miller J, Johnson P, DeLeon S. Off-label medication use in children, more common than we think: a systematic review of the literature. *J Okla State Med Assoc.* 2018;111(8):776–783.
- Ernst KD, Makkar A. The opioid-exposed neonate: a review of the Oklahoma experience. *J Okla State Med Assoc.* 2018;111(8):768–774.
- Clawson AH, Cole AB, Ruppe NM, Nwankwo CN, Blair AL, Berlin KS, Naifeh MM. Smoking across adolescence and adulthood with cardiovascular risk among American Indian peoples. *Health Psychol.* 2022;41(12):912–922. doi:10.1037/hea0001227.
- Young LW, Ounpraseuth ST, Merhar SL, et al; ACT NOW Collaborative. Eat, sleep, console approach or usual care for neonatal opioid withdrawal. *N Engl J Med.* 2023;388(25):2326–2337. doi:10.1056/NEJMoa2214470.
- Davis AM, Darden PM, Snowden J, Simon AE, McCulloh RJ, Bimali M, Lee J. Rationale and protocol for a cluster randomized, cross-over trial of recruitment methods of rural children in primary care clinics: a feasibility study of a pediatric weight control trial in the IDeA States Pediatric Clinical Trials Network. *Contemp Clin Trials.* 2021;107:106476. doi:10.1016/j.cct.2021.106476.
- O'Neil ST, Beasley W, Loomba J, Patrick S, Wilkins KJ, Crowley KM, eds. The Researcher's Guide to N3C: A National Resource for Analyzing Real-World Health Data. Published 2023. doi:10.5281/zenodo.7749367.
- Fairfield KM, Murray KA, Anzalone AJ, Beasley W, Khodaverdi M, Hodder SL, Harper J, Santangelo S, Rosen CJ. Association of vitamin D prescribing and clinical outcomes in adults hospitalized with COVID-19. *Nutrients.* 2022;14(15):3073. doi:10.3390/nu14153073.
- Neil J, Mao B, Shao R, Ogunsanya ME, Frank-Pearce S, Businelle M, et al. A pilot randomized clinical trial of a smartphone-based application to support at-home PSA screening and culturally tailored prostate cancer education for African American men: a study protocol. *Contemp Clin Trials.* 2024;147:107737. doi:10.1016/j.cct.2024.107737.
- Hanas JS, Hocker JR, Lerner MR, Couch JR. Distinguishing and phenotype monitoring of traumatic brain injury and post-concussion syndrome including chronic migraine in serum of Iraq and Afghanistan war veterans. *PLoS One.* 2019;14(4):e0215762. doi:10.1371/journal.pone.0215762.
- Couch JR, Stewart KE. Headache prevalence at 4–11 years after deployment-related traumatic brain injury in veterans of Iraq and Afghanistan wars and comparison to controls: a matched case-controlled study. *Headache.* 2016;56(6):1004–1021. doi:10.1111/head.12837.
- Couch JR, Stewart KE. Persistence of headache and its relation to other major sequelae following traumatic brain injury at 2–8 years after deployment-related TBI in veterans of Afghanistan and Iraq wars. *Headache.* 2022;62(6):700–717. doi:10.1111/head.14303.
- Cooper MT, Bard DE, Wallace RM, Gillaspay SR, DeLeon SD. A different perspective but consistent results: another look at "13 Reasons Why." *J Adolesc Health.* 2019;64(3):415–416. doi:10.1016/j.jadohealth.2018.12.013.
- Cooper MT, Bard DE, Wallace RM, Gillaspay SR, DeLeon SD. Suicide attempt admissions from a single children's hospital before and after the introduction of Netflix series "13 Reasons Why." *J Adolesc Health.* 2018;63(6):688–693. doi:10.1016/j.jadohealth.2018.08.028
- Niu MC, Dickerson HA, Moore JA, de la Uz C, Valdés SO, Kim JJ, Bard DE, Morris SA, Miyake CY. Heterotaxy syndrome and associated arrhythmias in pediatric patients. *Heart Rhythm.* 2018;15(4):548–554. doi:10.1016/j.hrthm.2017.11.013.
- Loe IM, Blum NJ, Shults J, Barbaresi W, Bax A, Cacia J, Deavenport-Saman A, Friedman S, LaRosa A, Mittal S, Vanderbilt D, Harstad E. Adverse effects of α-2 adrenergic agonists and stimulants in preschool-age ADHD: a DBPNet study. *J Pediatr.* 2023;257:113325. doi:10.1016/j.jpeds.2023.01.004.
- Deavenport-Saman A, Vanderbilt D, Harstad E, Shults J, Barbaresi W, Bax AC, Cacia J, Friedman S, LaRosa A, Loe I, Mittal S, Blum N. Association of coexisting conditions, attention-deficit/hyperactivity disorder medication choice, and likelihood of improvement in preschool-age children: a Developmental Behavioral Pediatrics Research Network study. *J Child Adolesc Psychopharmacol.* 2022;32(9):526–534. doi:10.1089/cap.2022.0009.
- Harstad E, Shults J, Barbaresi W, Bax A, Cacia J, Deavenport A, Friedman S, LaRosa A, Loe I, Mittal S, Vanderbilt D, Blum N. Preschool attention-deficit/hyperactivity disorder and telephone medication management at Developmental-Behavioral Pediatric Network sites. *J Dev Behav Pediatr.* 2021;42(6):481–484. doi:10.1097/DBP.0000000000000919.
- Hahn DW, Alammam N, Keathley A, Patel S, Smith C, Varghese T, Garbe MC, DeLeon SD. Incidence and severity of COVID-19-associated croup during the Omicron variant surge. *J Okla State Med Assoc.* 2022;115(6):227–230.
- Imtiaz, H., Sharieff, H. A., & Sultan, F. (2025). Evolving trends in antiseizure medication use: The emerging role of lacosamide in status epilepticus management—A single-center retrospective study. *Neurology*, 104, 4407. doi:10.1212/WNL.00000000000211648.

Appendix E – Published Manuscripts continued

- Chaffin M, Campbell C, Whitworth DN, Gillaspay SR, Bard DE, Bonner BL, Wolraich M. Accuracy of a pediatric behavioral health screener to detect untreated behavioral health problems in primary care settings. Clin Pediatr (Phila). 2017;56(5):427–434. doi:10.1177/0009922816678412.
- Harstad E, Shults J, Barbaresi W, Bax A, Cacia J, Deavenport-Saman A, Friedman S, LaRosa A, Loe I, Mittal S, Tulio S, Vanderbilt D, Blum N. α2-Adrenergic agonists or stimulants for preschool-age children with attention-deficit/hyperactivity disorder. JAMA. 2021;325(20):2067-2075. doi:10.1001/jama.2021.6118.
- Friedman SL, Shults J, Barbaresi W, Bax A, Cacia J, Deavenport-Saman A, LaRosa A, Loe IM, Mittal S, Vanderbilt DL, Blum N, Harstad E. Attention-deficit/hyperactivity disorder in medication treated preschool-age children without and with autism spectrum disorder: a Developmental-Behavioral Research Network study. J Dev Behav Pediatr. 2024;45(4):e372–e377. doi:10.1097/DBP.0000000000001286.
- Mittal S, Bax A, Blum NJ, Shults J, Barbaresi W, Cacia J, Deavenport-Saman A, Friedman S, LaRosa A, Loe I, Tulio S, Vanderbilt D, Harstad E. Receipt of behavioral therapy in preschool-age children with ADHD and co-existing conditions within DBPNet. J Dev Behav Pediatr. 2023;44(9):e651-e656. doi:10.1097/DBP.0000000000001216.
- Blum NJ, Shults J, Barbaresi W, Bax A, Cacia J, Deavenport-Saman A, Friedman S, LaRosa A, Loe I, Mittal S, Vanderbilt D, Harstad EB. Do externalizing or internalizing symptoms moderate medication response in preschool attention-deficit/hyperactivity disorder? A DBPNet study. J Dev Behav Pediatr. 2023;44(7):e447-e454. doi:10.1097/DBP.0000000000001209.

Appendix F – Conference Presentations

- Le, M., "Pharmacist-driven opioid medication use evaluation in post-operative orthopedic surgical patients", Oklahoma Society of Health-System Pharmacists Resident Research Conference, OSHP, Oklahoma City, OK, Oral Presentation. 2024.
- Boylan, P., "COPD and asthma management in the hospital", OU Rxperts, Oklahoma City, OK, Poster. 2023.
- Boylan, P., "Cost comparisons between albuterol delivery of nebulizers and metered-dose inhalers in inpatient pediatric asthma exacerbations", Southern Regional Meeting, Continental Hotel, New Orleans, LA, Poster. 2024.
- Patrick, C. A., "Assessing risk for DVT/PE in COVID-positive patients undergoing orthopedic surgeries", 49th Annual Visiting Professor Orthopedic Surgery and Rehabilitation, Samis Education Center, Oklahoma City, OK, Oral Presentation. April 19, 2024.
- Boylan P. "Cost comparisons between albuterol delivery of nebulizers and metered-dose inhalers in inpatient pediatric asthma exacerbations." Pediatric Hospital Medicine Meeting, Hilton Minneapolis, Minneapolis, MN. Oral Presentation. August 2024.
- Rector, H., Hahn, D. W., Le, M. K., Naifeh, M. M., "Adherence to new AAP guidelines for obtaining urinalysis and urine culture in febrile infants: A retrospective analysis of a local practice", Southern Regional Meeting, Tulane University Health Sciences Center, New Orleans, LA, Oral Presentation. February 2024.
- Beasley, W., "Leveraging OUHSC Clinical Research Data Warehouse to inform research & practice", University of Oklahoma School of Pharmacy, Oklahoma City, OK, Invited Lecture. November 9, 2021.
- Beasley, W., "Leveraging OUHSC Clinical Research Data Warehouse to inform research & practice", OUHSC Pediatric Residency Noon Conference, Oklahoma City, OK, Invited Lecture. January 2024.
- Beasley, W., "Leveraging OUHSC Clinical Research Data Warehouse to inform research & practice", University of Oklahoma School of Pharmacy, Oklahoma City, OK, Invited Lecture. October 26, 2021.
- O'Neil, S., Beasley, W. H., Loomba, J., Patrick, S., Wilkins, "The researcher's guide to N3C", N3Community Forum, Virtual, Oral Presentation. May 2023.
- O'Neil, S., Lehmann, H., Anzalone, J., Ponce, J., Beasley, W. H., "N3C short course", N3C, Virtual, 3-day course. June 14–17, 2022.
- Anzalone, A., Beasley, W. H., O'Neil, S., Ljazouli, S., "R transforms in the N3C Enclave", N3C Enclave Users Group, NIH N3C, Virtual, Invited Lecture. February 2023.
- Beasley, W. H., Thumann, A., "Leveraging the OUHSC Clinical Research Data Warehouse to inform research & practice", University of Oklahoma Health Sciences Center, Section of General & Community Pediatrics, Oklahoma City, OK, Invited Lecture. May 31, 2022.
- Bard, D. E., Beasley, W. H., Boylan, P., Marshall, G., et al., "Effect of background steroids therapy on hospitalization and disease severity indicators for asthma patients with COVID-19 infection", CTR N3C Governance Committee, Virtual, Oral Presentation. May 16, 2022.
- Beasley, W. H., Bard, D. E., CTR N3C Education Committee, "N3C: National COVID Cohort Collaborative", Oklahoma GeroScience Symposium, Oklahoma City, OK, Oral Presentation. April 2022.
- Beasley, W. H., Marshall, G., Thumann, A., Bard, D. E., "N3C and inter-institutional trends in medical research", SOMI, Developmental & Behavioral Pediatrics Section, Oklahoma City, OK, Invited Oral Presentation. April 28, 2021.
- Schelkoph, R. E., Liao, X., Fankhauser, E., Lane, B. A., McBride, B. J., Bax, A. C., "Children's development and the COVID-19 pandemic", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. February 7, 2025.
- Sukhera, F., Urquiola, J., Dvorak, J., Anderson, M., Knoles, C., "The price of deficient behavioral health resources in Oklahoma Children's Emergency Department", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. February 7, 2025.
- Quiroz Armenta, M., Dunlap, M., Li, Y., "Investigating barriers to meet Head Start and Early Head Start health requirements with Reach Out and Read (RORI) clinics", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. February 7, 2025.
- Katamaneni, V., Arshad, A., "Evaluating the risk of aspiration with oral feeding on high-flow nasal cannula", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. February 7, 2025.
- Ramzanali, S., Harris, C., DeLeon, S., Okpoko, P., "Treatment modalities and outcomes of cannabinoid hyperemesis syndrome at Oklahoma Children's: A retrospective analysis", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. February 7, 2025.
- Wilson, P., Yamaguchi, I., "Vesicoureteral reflux in pediatric kidney transplant", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. February 7, 2025.
- Martinez, S., Bodkin, D., Malloy, K., Streeter, T., Corcoran, K., "Beyond green: Recognizing the varied presentations of intestinal malrotation in children using a mixed methods approach", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. February 7, 2025.
- Massey, C., Akande, M., Gormley, A., Garbe, M., Liao, X., "Relationship between time and distance on illness severity and outcomes of critically ill children transferred to a tertiary pediatric hospital", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. February 7, 2025.
- Dalton, C. I., Raney, V., Corcoran, K., Malloy, K., Martinez, S., Hunter, C., "Delayed diagnosis and surgical intervention of intestinal malrotation can lead to persistent post-operative gastrointestinal symptoms", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. February 7, 2025.
- Kutteh, L., Harris, C., Rector, H., Sowdagar, S., DeLeon, S., "Oklahoma is not OK: Increasing accidental cannabis exposures after medical marijuana legalization", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. February 2, 2024.
- Bogie, A., Kaliki, V., "Variability in the management of infants aged 29–89 days with fever presenting to a tertiary children's hospital emergency department", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. February 2, 2024.
- Smith, C., Naifeh, M., Aston, C., "Albuterol in bronchiolitis: Patient characteristics associated with improved clinical outcomes, a retrospective review", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. February 2, 2024.
- Rector, H., Hahn, D., Le, M., Naifeh, M., "Adherence to new AAP guidelines for obtaining urinalysis and urine culture in febrile infants: A retrospective analysis of a local practice", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. February 2, 2024.
- Skousen, C., Le, M., "Comparing the cost of delivering albuterol through metered-dose inhalers vs nebulizers in pediatric patients admitted for an asthma exacerbation", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. February 2, 2024.
- Bouvette, S., Bailey, A., Chen, S., Noyd, D., "Informatics tools for equitable childhood cancer survivorship care in Oklahoma", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. February 2, 2024.
- Wilmore, B., DeLeon, S., "An analysis of pediatric hospital readmissions", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. February 2, 2024.
- Naqvi, O., Wendelboe, A., "The impact of the SARS-CoV-2 B.1.617.2 (Delta) variant on hospitalizations and deaths among children and adolescents in Oklahoma living in urban versus rural counties", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. February 2, 2024.
- Golubkova, A., Snyder, K., Leiva, T., Hunter, C. J., Landmann, A., Ivanov, V., "Impact of meconium exposure on bowel injury and gastroschisis outcomes", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. February 2, 2024.
- Bogie, A., "Variability in the management of infants aged 29–89 days presenting to the pediatric emergency department with fever", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Oral Presentation. March 4, 2022.
- DeLetter, A., Stafford, L., DeLeon, S., "Trends in suicide attempt presentations, 2012–present", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Oral Presentation. March 4, 2022.
- Johnson, R., "Encephalopathy and seizures from tetrahydrocannabinol (THC) ingestion", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Oral Presentation. 2021.
- Guthrie, C., Bogie, A., "Practice patterns for acute pediatric migraine treatment in the emergency department", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Oral Presentation. 2021.

Appendix F – Conference Presentations

continued

- Nouri, Z., Yu, Z., Esmaeili, A., Tung, J., "The role of colonic eosinophilia in disease activity and outcomes in pediatric inflammatory bowel disease – preliminary results", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. 2021.
- Shim, I., Aston, C., Huismann, D., Youngs, E., "A retrospective chart review of the average age of genetic testing for the BRCA1 and BRCA2 genes in patients from 2010–2019", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. 2021.
- Sprouse, K., Drennan, S., Burge, K., Eckert, J., Mir, A., Gormley, A., Schwartz, R., Daves, S., Burkhart, H., Chaaban, H., Allen, C., "Methylene blue in neonates with catecholamine-resistant shock after cardiopulmonary bypass", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. 2021.
- Qadar, A., Anderson, M., Miller, O., Broujeni, B. I., Rensing, A., Sundaram, B., Frimberger, D., "Circumcision complications requiring surgical revision: A comparison between pediatric urology and other health care providers", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. 2021.
- Hahn, D., Atkinson, C., "Asthma population management in The Children's Hospital Emergency Department", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. March 6, 2020.
- Nouri, Z., Esmaeili, A., Yu, Z., Tung, J., "The role of colonic eosinophilia in disease activity and outcome in pediatric inflammatory bowel disease: Protocol and preliminary results", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. March 6, 2020.
- Douville, E., Bryant, C., Dunlap, M., Dusenberry, B., Aston, C., "Implementation of postpartum depression screening at the OUHSC outpatient pediatrics clinics: A QI project", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. March 6, 2020.
- Janitz, A., Campbell, J., Stoner, J., McNall-Knapp, R., Pokala, H., Blanchard, J., "Exploring disparities among American Indian children with cancer", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. March 6, 2020.
- Morgan, K., DeLeon, S., Naifeh, M., Tyungu, D., Ward, K., "Neonatal fever and irritability, not just your average sepsis work up", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. March 6, 2020.
- Bogie, A., et al. "The Findings on Chest X-Rays Obtained on Febrile Children Admitted for Status Asthmaticus, a Descriptive Study." University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. March 8, 2019.
- Bogie, A., et al. "Implementation of Postpartum Depression (PPD) Screening at the OU Latino Clinic." University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. March 8, 2019.
- Deel, M., Shumate, L., Cherry, A., Bryant, C., McGuinn, L., Wolraich, M., Bax, A., "Pediatric residency anxiety and depression education: Adapting an evidence-based course to accommodate a medium-sized pediatric residency", University of Oklahoma Pediatric Research Day, Oklahoma City, OK, Poster. May 12, 2017.
- Deel, M., Shumate, L., Cherry, A. S., Bryant, C. L., McGuinn, L. J., Wolraich, M., Bax, A. C., "Pediatric residency anxiety and depression education: Adapting an evidence-based course to accommodate a medium sized pediatric residency", OUHSC Academy of Teaching Scholars Annual Education Week, Oklahoma City, OK, Poster. September 15, 2017.
- Mittal, S., Barbaresi, W., Bax, A. C., ..., Cacia, J., "Receipt of behavioral therapy in preschool-age children with ADHD: A Developmental Behavioral Pediatrics Research Network (DBPNet) study", Pediatric Academic Societies (PAS) Annual Meeting, Denver, CO, Oral Presentation. April 24, 2022.
- Akande, M., Ramgopal, S., Graham, R. J., ..., Heneghan, J., "Impact of neighborhood child opportunity on the risk of emergent pediatric ICU readmission following critical illness", Pediatric Academic Societies (PAS) Annual Meeting, Denver, CO, Oral Presentation. April 24, 2022.
- Akande, M., Garbe, M., Darden, P. M., "Impact of adherence to well child visit schedule on the risk of unplanned pediatric ICU admission for children with medical complexity", Pediatric Academic Societies (PAS) Annual Meeting, Denver, CO, Oral Presentation. April 24, 2022.
- Giammattei, V., Weaver, J., Batisky, D. L., ..., Yamaguchi, I., South, A. M., "The Study of the Epidemiology of Pediatric Hypertension (SUPERHERO) Registry: Interim analysis of Phase 1.1 data", Pediatric Academic Societies (PAS) Annual Meeting, Denver, CO, Oral Presentation. April 25, 2022.
- Akande, M., "The impact of social determinants of health across the spectrum of critical illness", Pediatric Academic Societies (PAS) Annual Meeting, Virtual, Oral Presentation. May 3, 2021.
- Harris C, Rector H, Kutteh L, Sowdagar S, DeLeon S. Oklahoma is not OK: increasing accidental cannabis exposures after medical marijuana legalization. In: Southern Regional Meeting Abstracts 2024; February, 2024; New Orleans, LA. J Investig Med. 2024;72(2):573-574.
- Rector H, Hahn D, Le MK, Naifeh M. Adherence to new AAP guidelines for obtaining urinalysis and urine culture in febrile infants: a retrospective analysis of a local practice. In: Southern Regional Meeting Abstracts 2024; February, 2024; New Orleans, LA. J Investig Med. 2024;72(2):S321.
- Smith C, Naifeh M, Aston C. Albuterol in bronchiolitis: patient characteristics associated with improved clinical outcomes, a retrospective review. In: Southern Regional Meeting Abstracts 2024; February, 2024; New Orleans, LA. J Investig Med. 2024;72(2):S318.
- Skousen C, Le MK. Cost comparisons between albuterol delivery of nebulizers and metered-dose inhalers in inpatient pediatric asthma exacerbations: a retrospective chart review. In: Southern Regional Meeting Abstracts 2024; February, 2024; New Orleans, LA. J Investig Med. 2024;72(2):S319.
- Holbrook, E., "Artificial intelligence in medicine: AI's impact in family medicine", Oklahoma Academy of Family Physicians Scientific Assembly at the EXPLORE Healthcare Summit, Norman, OK, Oral Presentation. August 2024.
- Port, E., Hunter, C. J., Buonpane, C., Sands, L., Kujawa, S., Reynolds, M., "Echocardiogram reveals heart abnormalities in pediatric pectus carinatum," Academic Surgical Congress (ASC), Orlando, FL, Oral Presentation (Integrated Quick Shot). February 2020.
- Buonpane, C., Vacek, J., Port, E., Benyamen, B., Reynolds, M., Hunter, C., "Screening Echocardiography for Cardiac and Genetic Anomalies in Pediatric Pectus Deformities," Academic Surgical Congress (ASC), Orlando, FL, Oral Presentation (Integrated Quick Shot). February 2020.
- Thapa, S., Craft, M., Smith, K., Ott, A., Garrett, S., Stayton, R., Jamal, R., Teague, D., Pasque, C., "Referrals to a Level I Trauma Center: A Retrospective Review," REACH-OUT 2025 Poster Forum, Tulsa, OK, Poster. 2025.
- Knight, L. M., Narala, B., Watson, S., Tryggestad, J. B., Hsia, D. S., "Vitamin D Supplementation in Obese Children — Are We D-ing Enough?" Pediatric Academic Societies (PAS) 2025 Meeting, Honolulu, HI, Oral Presentation. April 28, 2025.
- DeLeon, S., "Oklahoma is not OK: The Impact of Medical Marijuana Legalization on our Children", OKAAP SPARK Conference: Strengthening Pediatricians with Advocacy, Research, and Knowledge, Oklahoma Chapter, American Academy of Pediatrics (OKAAP), Oklahoma City, OK, Oral Presentation. April 8, 2025.
- Ramzanali, S., Harris, C., DeLeon, S., Okpoko, P., "Treatment modalities and outcomes of cannabinoid hyperemesis syndrome at Oklahoma Children's: A retrospective analysis", Pediatric Academic Societies Meeting, Academic Pediatric Association (APA), American Academy of Pediatrics (AAP), and Society of Hospital Medicine (SHM), Honolulu, HI, Poster. April 2025.
- Rosandich, T., Siegrist, E. A., Alkozah, M., Sassine, J., Neely, S., White, B. P., "The SPICE must flow: Comparing treatment failure for low-risk AmpC-producing organisms", OSHP Research Conference, OSHP, Norman, OK, Oral Presentation. May 2025.
- Krug, N., Boardman, R., Mathew, J., Sassine, J., Neely, S., Siegrist, E. A., White, B., "Incidence and risk factors for acute kidney injury associated with liposomal amphotericin B", OSHP Research Conference, OSHP, Tulsa, OK, Oral Presentation. May 2024.
- Ibragimova, N., Siegrist, E. A., Sassine, J., Neely, S., McCloskey, C. B., White, B., "Validation of DRIP score and derivation of local score predicting multi-drug resistant pathogens in patients with community-acquired pneumonia", OSHP Research Conference, OSHP, Tulsa, OK, Oral Presentation. May 2024.

Appendix F – Conference Presentations

continued

- Bedwell, S., Pogribna, U., "ELBW workshop", CHNC Annual Symposium, Denver, CO, Workshop. October 29, 2024.
- Evergreen, K., Treat, A., Bard, D. E., "Overview and summary findings from the Substance Use Treatment and Access to Resources (STARS) project: A Regional Partnership Grant, 6th cohort", All Grantees Meeting for Regional Partnership Grants, Administration for Children and Families, Washington, DC, Oral Presentation. June 2024.
- Rosen, A., Bard, D. E., Beasley, W. H., Cheng, J., Marshall, G., "The impact of the COVID-19 pandemic on suicidal ideation among youth", Monthly N3C CTR Collaborative Meeting, Virtual, Oral Presentation. February 2024.
- Miner, H., Bard, D. E., White, J. R., "Re-evaluating the work-up of destructive bone lesions of unknown etiology", Musculoskeletal Tumor Society Annual Meeting, Clearwater, FL, Oral Presentation. December 2022.
- Bard, D. E., "Clinical quality measure of internalizing/externalizing (I/E) behavior for children and adolescents", The 2019 American Psychological Association Convention, APA, Chicago, IL, Oral Presentation. August 10, 2019.
- Bard, D., Beasley, W. H., Thumann, A., "Leveraging OUHSC bioinformatics to inform research & practice", NIH/NIGMS IDeA Central Region Conference 2019, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Oral Presentation. June 13, 2019.
- Beasley, W. H., Thumann, A., Mandem, S., Bard, D. E., "POPS: Informatics infrastructure for clinical research recruitment", Oklahoma Pediatric Clinical Trials Network Advisory Committee Meeting, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Demonstration. February 25, 2019.
- Bard, D. E., "Are sirens harmonizing again? The lure and challenge of big data integration in medicine", Big Data Symposium, Oklahoma City Innovation District, Oklahoma City, OK, Oral Presentation. October 18, 2017.
- Bard, D. E., Beasley, W. H., Nagykalai, Z. J., "A clinical data warehouse ecosystem to support research and QAQI", BERD Seminar Series, Department of Biostatistics & Epidemiology/OSCTR, Oklahoma City, OK, Oral Presentation. November 18, 2015.
- Blum, N. J., Shults, J., Cacia, J., Bax, A. C., ..., Harstad, E., "Do ADHD severity, externalizing, or internalizing symptoms moderate medication response in preschool-aged children with ADHD? A DBPNet study", Pediatric Academic Societies (PAS) Annual Meeting, Washington, DC, Paper. April 28, 2023.
- Blum, N., Shults, J., Cacia, J., Bax, A. C., ..., Harstad, E., "Do externalizing and internalizing symptoms moderate medication response in preschool ADHD? A DBPNet study", Society for Developmental and Behavioral Pediatrics Annual Meeting, Denver, CO, Oral Presentation. October 22, 2022.
- Harstad, E., Shults, J., Barbaresi, W., Bax, A. C., ..., Blum, N., "Stimulants versus alpha-2 agonists for preschool-age children with attention-deficit/hyperactivity disorder: A multi-center clinical effectiveness study", Pediatric Academic Societies (PAS) Annual Meeting, Virtual, Platform Presentation. May 4, 2021.
- Deavenport-Saman, A., Vanderbilt, D., Harstad, E., Shults, J., Barbaresi, W., Bax, A. C., ..., Blum, N., "Coexisting conditions related to medication use and dose to achieve effectiveness in preschoolers with ADHD: A DBPNet study", Society for Developmental and Behavioral Pediatrics Annual Meeting, Virtual, Platform Presentation. October 12, 2020.
- Henson, C., "Disease outcomes for early stage, high risk oral cavity cancer treated with surgery plus radiation therapy versus surgery alone [PORTHES-OC]", Head & Neck Cancer International Group (HNCIG) Annual Meeting, Faro, Portugal, Oral Presentation. November 12–13, 2025.
- Noyd, D. H., Bailey, A. K., Janitz, A., Bouvette, S., Beasley, W. H., Baker, A. A., Chen, S., Bard, D. E. "Cardiovascular Risk Factors and Early Cardiovascular Disease Among Childhood, Adolescent, and Young Adult Cancer Survivors." 55th Congress of the International Society of Paediatric Oncology (SIOP 2023), Ottawa, Canada, Oral Presentation. October 14, 2023.
- Noyd, D. H., Bailey, A. K., Janitz, A., Bouvette, S., Beasley, W. H., Baker, A. A., Chen, S., Bard, D. E. "Informatics Tools to Implement Late Cardiovascular Risk Prediction Modeling for Population Health Management of High-Risk Childhood Cancer Survivors." 54th Congress of the International Society of Paediatric Oncology (SIOP 2022), Barcelona, Spain, Oral Presentation. October 1, 2022.
- Noyd, D. H. "Informatics Tools for Equitable Survivorship Care." Seattle Children's Hospital Cancer Survivorship Program Seminar, Seattle, WA, Oral Presentation. September 13, 2022.
- Zaring-Hinkle, B., Elmasry, H., Kendzor, D. E., Cohn, A. M., "Association between cannabis use during pregnancy and adverse pregnancy and birth outcomes, PATH Waves 1–5," Research Society on Marijuana (RSMJ) Annual Meeting, Long Beach, CA, Oral Presentation. July 21–23, 2023.
- Lausen, J. D., Benbrook, D., "DDX3X as a rational target to improve disparate outcomes of American Indian patients with endometrial cancer: potential metabolic link to type 2 diabetes," Harold Hamm Diabetes Center Research Symposium, Samis Education Center, Oklahoma City, OK, November 15, 2024.
- Treat, A., Milojevich, H. M., Bard, D. E., "Prenatal care and treatment for substance use disorder: Barriers influencing cross-system care and collaboration," SRCOD 2025 Biennial Meeting, Minneapolis, MN, Poster. May 1–3, 2025.
- Romero, S., Swan, F., Barton, N., Fankhauser, E., Liao, X., Milojevich, H. M., Bard, D. E., "Predicting substance use disorders through adverse childhood experiences", Society for Research in Psychopathology Annual Conference, Montreal, Canada, Poster. October 2024.
- Romero, S., Swan, F., Barton, N., Liao, X., Milojevich, H. M., Bard, D. E., "Longitudinal studies involving individuals with SUDs: Does anxiety reduce retention?", Oklahoma Psychological Society Conference, Edmond, OK, Poster. April 2024.
- Loe, I. B., Barbaresi, W., Bax, A. C., ..., Blum, N., "Side effects of methylphenidate and guanfacine in preschoolers with ADHD: A DBPNet study", Society for Developmental and Behavioral Pediatrics Annual Meeting, Virtual, Poster. October 12, 2020.
- Harstad, E., Shults, J., Barbaresi, W., Bax, A. C., et al., "Stimulants vs alpha-2 agonists for preschool-age children with attention-deficit/hyperactivity disorder: A multi-center clinical effectiveness study", Society for Developmental and Behavioral Pediatrics Annual Meeting, Washington, DC, Poster. September 15, 2019.
- Harstad, E., Shults, J., Barbaresi, W., Bax, A. C., et al., "Medication used for initial ADHD medication treatment of preschoolers seen within DBPNet centers", Society for Developmental and Behavioral Pediatrics (SDBP) Annual Meeting, Washington, DC, Poster. September 2019.
- Harstad, E., Shults, J., Barbaresi, W., Bax, A. C., et al., "Retrospective comparative effectiveness study of stimulants and alpha-2 agonists for preschool-aged children with ADHD", HRSA Maternal & Child Health Bureau Research Network Grantee Meeting, Washington, DC, Poster. July 2019.
- Schelkoph, R. E., Liao, X., Fankhauser, E., Lane, B. A., McBride, B. J., Bax, A. C., "Children's development and the COVID-19 pandemic", Society for Developmental & Behavioral Pediatrics Annual Meeting, San Diego, CA, Poster. September 20, 2025.
- Rector, H., Hahn, D. W., Le, M. K., Naifeh, M. M., "Adherence to new AAP guidelines for obtaining urinalysis and urine culture in febrile infants: A retrospective analysis of a local practice", Department of Pediatrics Research Day, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. February 2024.
- Rector, H., Hahn, D. W., Le, M. K., Naifeh, M. M., "Adherence to new AAP guidelines for obtaining urinalysis and urine culture in febrile infants: A retrospective analysis of local practice", Pediatric Hospital Medicine Conference (APA/AAP/SHM), Minneapolis, MN, Poster. August 2024.
- Buynak, N., Hahn, D. W., "A pilot study evaluating respirator fit based on app-determined and self-determined facial shape", Department of Pediatrics Research Day, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. March 4, 2022.
- Thompson, A., Hahn, D. W., "Preliminary data collection for forthcoming evidence-based QI for the management of asthma exacerbation in the acute care setting", Department of Pediatrics Research Day, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. March 4, 2022.
- Thompson, A., Hahn, D. W., "Preliminary data collection for forthcoming evidence-based QI for the management of asthma exacerbation in the acute care setting", Southern Regional Meeting, Tulane University Health Sciences Center, New Orleans, LA, Poster. February 2021.

Appendix F – Conference Presentations

continued

- Hahn, D. W., Cooper, M. T., Blucker, R. T., Dunlap, M. E., "A quality improvement project to improve asthma management in a Latino clinic", Southern Regional Meeting, Tulane University Health Sciences Center, New Orleans, LA, Poster. February 21, 2019.
- Harris C, Rector H, Kuttah L, Sowdagar S, DeLeon S. "Oklahoma is not OK: Increasing accidental cannabis exposures after medical marijuana legalization." Pediatric Academic Societies Annual Meeting, Metro Toronto Convention Centre, Toronto, Ontario, Canada. Poster. May 2024.
- Smith C, Naifeh M, Aston C. "Albuterol in bronchiolitis: Patient characteristics associated with improved clinical outcomes, a retrospective review." Pediatric Academic Societies Annual Meeting, Metro Toronto Convention Centre, Toronto, Ontario, Canada. Poster. May 2024.
- Weaver, D. J., Biswas, S., Bridges, A. M., ..., Yamaguchi, I., South, A. M. "Association of age, blood pressure severity, and target organ injury with secondary vs. primary hypertension in youth referred for hypertension disorders: Interim analysis of the SUPERHERO Registry." Pediatric Academic Societies (PAS) Annual Meeting, Washington, DC, Presentation. April 30, 2023.
- Murphy, M., Bauer, J. A., Biswas, S., ..., Yamaguchi, I., South, A. M. "Association of sex with blood pressure severity, obesity, dyslipidemia, hyperglycemia, and target organ injury: a SUPERHERO interim analysis." Pediatric Academic Societies (PAS) Annual Meeting, Washington, DC, Presentation. April 30, 2023.
- Murphy, M., Bagley, K. W., Bauer, J. A., ..., Yamaguchi, I., South, A. M. "Association of unmet social needs with obesity, dyslipidemia, and hyperglycemia: a SUPERHERO interim analysis." Pediatric Academic Societies (PAS) Annual Meeting, Washington, DC, Presentation. April 30, 2023.
- Giammattei, V., Bagley, K. W., Biswas, S., ..., Yamaguchi, I., Yun, E. J., South, A. M. "Racial and Ethnic Variation in Youth-Onset Hypertension Severity, Target Organ Injury, and Initial Management: A SUPERHERO Interim Analysis." Pediatric Academic Societies (PAS) Annual Meeting, Washington, DC, Presentation. April 30, 2023.
- Murphy, M., Bauer, J. A., Biswas, S., ..., Yamaguchi, I., South, A. M. "Association of preterm birth and lower birth weight with obesity, dyslipidemia, and hyperglycemia: initial findings from the SUPERHERO registry." Pediatric Academic Societies (PAS) Annual Meeting, Washington, DC, Presentation. April 30, 2023.
- Vincent, C., Biswas, S., Bridges, A. M., ..., Yamaguchi, I., Yun, E. J., South, A. M. "Change in Cardiovascular Health in Youth with Hypertension Disorders Since 2015." Pediatric Academic Societies (PAS) Annual Meeting, Washington, DC, Presentation. April 30, 2023.
- Merhar, S. L., Devlin, L. A., Hu, Z., ..., Hahn, D.; NICHD NRN & IDeA States Network. "Growth and feeding of infants with neonatal opioid withdrawal syndrome (NOWS) in the ESC-NOW trial." Pediatric Academic Societies (PAS) Annual Meeting, Washington, DC, Presentation. April 28, 2023.
- Darden, P. M., Patil, S., Becton, D. D., ..., Garbe, M. C., Brown, A. W. "Continuity of Care in Arkansas Children's Primary Care Clinics and Opportunity for Improvement." Pediatric Academic Societies (PAS) Annual Meeting, Washington, DC, Presentation. May 1, 2023.
- Darden, P. M., "A cluster randomized trial of recruitment methods targeting rural children in primary care clinics", Pediatric Academic Societies (PAS) 2021 Virtual Meeting, Virtual, e-Poster (Publication #EP-152.1049). May 2021.
- Thompson A, Martin S, Kornfeld E, Hahn DW, Aston C, Naifeh M. "Preliminary data collection for forthcoming evidence-based QI for the management of asthma exacerbation in the acute care setting." Southern Regional Meeting, New Orleans, LA. Abstract. February 2022. J Investig Med. 2022;70(2):S498.
- Dusenberry B, Dunlap M, Douville E. "Implementation of postpartum depression (PPD) screening at the OU Latino Clinic." Southern Regional Meeting, New Orleans, LA. Abstract. February 2019. J Investig Med. 2019;67(2):S359.
- Pius, P., "NCDB analysis of survival outcomes for locoregionally advanced laryngeal cancer treated with definitive chemoradiation vs. surgery", ASTRO Annual Meeting 2025, San Francisco, CA, Oral Presentation. September 29, 2025.
- Nguyen, M., Mohammad-Zadeh, A., Krempf, G., ..., Henson, C. "Merkel Cell Carcinoma (MCC): Treatment and Outcomes Over the Past Ten Years at a High-Volume Academic Center." ASTRO Annual Meeting, Chicago, IL, Poster. 2019.
- White, B. P., "Comparing toxicity of piperacillin-tazobactam versus cefepime in OPAT", IDWeek 2025, Georgia World Congress Center, Atlanta, GA, Poster. October 2025.
- Rosandich, T., Siegrist, E. A., Alkozah, M., Sassine, J., Neely, S., White, B. P., "The SPICE must flow: Comparing treatment failure for low-risk AmpC-producing organisms", ASHP Midyear Clinical Meeting, ASHP, New Orleans, LA, Poster. December 2024.
- Berenson, M., Dozier, J. K., Siegrist, E. A., Dvorak, J. D., ..., Sassine, J., "Evaluation of IVEnsure device and care platform for remote therapeutic monitoring in OPAT: Interim analysis of a pilot study", IDWeek 2024, IDSA, Los Angeles, CA, Poster. October 19, 2024.
- Ibragimova, N., Siegrist, E. A., Sassine, J., Neely, S., McCloskey, C. B., White, B. P., "Validation of DRIP score and derivation of local score predicting multi-drug resistant pathogens in patients with community-acquired pneumonia", IDWeek 2024, IDSA, Los Angeles, CA, Poster. 2024.
- Krug, N., Boardman, R., Mathew, J., Sassine, J., Neely, S., Siegrist, E. A., White, B., "Incidence and risk factors for acute kidney injury associated with liposomal amphotericin B", ASHP Midyear Clinical Meeting, ASHP, Anaheim, CA, Poster. December 2023.
- Scott, B., Gordon, O., Sassine, J., Sahra, S., Bowman, D., Agudelo Higueta, N. I., "Coccidioidomycosis in the Central U.S.: A retrospective case series", IDWeek 2023, IDSA, Boston, MA, Poster. October 12, 2023.
- Berenson, M., Dozier, J. K., Siegrist, E. A., Dvorak, J. D., ..., Sassine, J., "Evaluation of IVEnsure device and care platform for remote therapeutic monitoring in OPAT: Interim analysis of a pilot study", Department of Medicine Research Symposium, Oklahoma City, OK, Poster. October 25, 2024.
- Rolfs, S., DeShea, L., McCoy, M., Beasley, W. H., Szyld, E., Makkar, A., "Medical marijuana legalization in Oklahoma: Effects on neonatal exposure to opiates", Pediatric Academic Societies (PAS) 2022 Meeting, Denver, CO, Poster. April 22, 2022.
- Razaq, H., Borg, A., Arndt, J., Ruff, J., Sexton, A., Salomon, K. I., Bettiol, P. J., Vallurupalli, S. "Percutaneous fixation for AO type B thoracolumbar fractures: A retrospective case series." OU Research Symposium, Oklahoma City, OK, Poster. October 17, 2025.
- Ferreyro, R., Mahmood, Z., Razaq, H., Salomon, K., Hasanjee, A., Sanclement, J., Vallurupalli, S. "Comparative outcomes of reconstructive flap repair for esophageal perforations: Anterior cervical spine surgery vs. other etiologies." OU Research Symposium, Oklahoma City, OK, Poster. October 17, 2025.
- O'Banion, D., Bard, D. E., Wolraich, M. "Proactive Stimulant Titration in Attention-Deficit/Hyperactivity Disorder: A Pilot Randomized Control Trial with Implications for DBPs." Society for Developmental & Behavioral Pediatrics Annual Meeting, Cleveland, OH, Poster. October 13, 2017.
- Lam AB, Moore VA, Kola G, Beasley W, Bard D, Kanagwa BA, et al. Association of socioeconomic deprivation with clinical outcomes among hospitalized patients with cancer. J Clin Oncol. 2025;43(suppl 16):e18854. doi:10.1200/JCO.2025.43.16_suppl.e18854.
- Lam AB, Moore VA, Kola G, Beasley W, Bard D, Kanagwa BA, et al. Demographic and clinical factors associated with care outcomes in hospitalized patients with cancer. J Clin Oncol. 2025;43(suppl 16):e18850. doi:10.1200/JCO.2025.43.16_suppl.e18850.
- Kadatane S, Liles J, Lam AB, Moore VA, Kola G, Beasley W, et al. Receiving a cancer diagnosis during hospitalization and associations with care outcomes. J Clin Oncol. 2025;43(suppl 16):11046. doi:10.1200/JCO.2025.43.16_suppl.11046.
- DeShea L, Rolfs S, McCoy M, Beasley WH, Szyld E, Makkar A. Medical marijuana legalization in Oklahoma: effects on neonatal exposure to opiates. Am J Perinatol. 2024;41(suppl 1):e1069-e1074. doi:10.1055/a-1990-8311.

Appendix G – CRDW Other Supports & Initiatives

In addition to the ingestion, harmonization, and maintenance of data from OU Health's Epic and legacy EHR data systems, our Data Scientists work closely with stakeholders and University entities on a number of initiatives and services.

1. Data Integrations and Foundational Work for Campus Informatics:

The CRDW team has worked closely with OU Health to establish multiple integrations between Epic and other services, including:

- a. Legacy EHR data conversion - The CRDW were heavily involved in the migration from Meditech and athenaFlow to Epic, including creating unique identifiers to connect patients between systems.
- b. REDCap on FHIR - an integration that will pull pre-mapped fields directly from Epic into REDCap. This will support streamlined workflows for data entry and analysis.
- c. OnCore FHIR integration - Enables data from patient enrollment in studies to pass from OnCore to Epic and for patient demographic details to pass from Epic to OnCore. Eliminates the need for duplicate data entry, and facilitates instant documentation of patient participation in studies being shown directly on the chart.
- d. OnCore SAE integration - Enables users to import Serious Adverse Events (SAEs) directly from Epic into OnCore with a single button press
- e. OnCore iRis integration - Worked with Norman campus IT to create a custom integration in Boomi which supports the creation of new protocols in OnCore from IRB application information. Currently beta testing, anticipate full adoption in coming months.
- f. EMERSE (Electronic Medical Record Search Engine) - Software that helps researchers accurately find and extract important patient details like diagnoses, medications, procedures, and complications from clinical notes. EMERSE is easy for non-technical people to use and enables health research that was previously inefficient or nearly impossible. The functionality enables users to quickly and easily search notes in Epic (similar to a Google search) and retrieve data (terms are highlighted within the notes for rapid concept identification) that are not otherwise available in structured fields, such as ICD codes and lab values. EMERSE has the potential to save study personnel hours on chart review for data collection.
<https://itsupport.ou.edu/TDClient/66/Clinical-Research-Informatics/KB/PrintArticle?ID=3312>

2. Access to other data sources:

All research data requests from OU Health are routed to the CRDW. In some instances, researchers may be able to more quickly or efficiently answer their research questions with other data sources. The CRDW Data Science experts work closely with investigators to locate and identify some of these data sources when needed. CRDW data scientists are also available to work closely with researchers to assemble cohorts and perform analytics

- a. Cosmos - Cosmos (<https://cosmos.epic.com/>) is a harmonized, groomed dataset including longitudinal records from over 1400 hospitals and 32.5K clinics with over 11 billion encounters for 242 million distinct patients including lab results, procedures, hospital visits, vitals, demographics, social determinants of health, and much more. Cosmos is accessible to all researchers affiliated with a Cosmos participating organization. Users who take a short series of courses are able to use the Epic SlicerDicer tool to identify and evaluate patterns, trends, counts, and various cross-sectionality views of existing data for all institutions that contribute data to Cosmos. Cosmos is used to answer research questions and to learn more about institutional quality control. Obtaining access to a new project in Cosmos is fast, and answers can be obtained on-demand. Cosmos has an elected governance board, and all users must agree to the Cosmos Rules of the Road to uphold the standards of use.
- b. National Clinic Cohort Collaborative - The National COVID Cohort Collaborative (N3C) is a collaboration among the NCATS-supported Clinical and Translational Science Awards (CTSA) Program hubs, distributed clinical data networks (PCORnet, OHDSI, ACT, TriNetX), and other partner organizations, with overall stewardship by NIH's National Center for Advancing Translational Sciences (NCATS). The N3C aims to improve the efficiency and accessibility of analyses with COVID-19 clinical data, expand our ability to analyze and understand COVID, and demonstrate a novel approach for collaborative data sharing.
- c. All of Us - The National Institutes of Health's All of Us Research Program hosts a one-of-a-kind dataset stored on the Researcher Workbench, a secure, cloud-based platform. Registered researchers can access data from surveys, genomic analyses, electronic health records, physical measurements, and wearables to study the full range of factors that influence health and disease.

3. Other Misc. Data Science Initiatives:

Our data scientists are involved in multiple projects that are testing new use cases for Machine Learning and Artificial Intelligence.

- a. LLM use - We are exploring multiple projects where LLM can be used to streamline processes for obtaining metadata, and we are currently working to secure access to a secured environment where LLM can be used to intelligently extract data on unstructured data.
- b. Machine Learning - We are working on projects which leverage machine learning to look at certain outcomes in hospital data.