

DEPARTMENT OF EMERGENCY MEDICINE

RESEARCH ACTIVITY: JANUARY – DECEMBER 2018

Publications – Peer-Reviewed Articles

1. Baron BJ, Benabbas R, Kohler C, Biggs C, Roudnitsky V, Paladino L, Sinert R. Accuracy of Computed Tomography in Diagnosis of Intra-abdominal Injuries in Stable Patients With Anterior Abdominal Stab Wounds: A Systematic Review and Meta-analysis. *Acad Emerg Med.* 2018;25(7):744-57. Epub 2018/01/26. doi: 10.1111/acem.13380. PubMed PMID: 2931.
2. Chaganti P, Chao JH. Bent Out of Shape: A Case of Abdominal Pain. *Pediatr Emerg Care.* 2018. doi: 10.1097/PEC.0000000000001573. PubMed PMID: 30346365.
3. Batra P, Thakur N, Mahajan P, Patel R, Rai N, Trivedi N, Fassi B, Shah B, Saha A, Lozon M, Oteng RA, Shah D, Galwankar S. An evidence-based approach to evaluation and management of the febrile child in Indian emergency department. *Int J Crit Illn Inj Sci.* 2018;8(2):63-72. doi: 10.4103/IJCIIS.IJCIIS_3_18. PubMed PMID: 29963408; PMCID: PMC6018255.
4. Baron BJ, Nguyen A, Stefanov D, Shetty A, Zehtabchi S. Clinical value of triage lactate in risk stratifying trauma patients using interval likelihood ratios. *Am J Emerg Med.* 2018;36(5):784-8. doi: 10.1016/j.ajem.2017.10.015. PubMed PMID: 29032876.
5. deSouza IS. Abandoning Further Study of the Application of Computed Tomography Decision Rules to Low-Risk Patients With Head Injury. *Ann Emerg Med.* 2018;72(5):623-4. doi: 10.1016/j.annemergmed.2018.07.005. PubMed PMID: 30342737.
6. Kapinos G, Hanley DF, Jr. The systolic blood pressure sweet spot after intracerebral hemorrhage: 130 mm Hg? *Neurology.* 2018;91(11):495-6. doi: 10.1212/01.wnl.0000544245.04683.a1. PubMed PMID: 30097478.
7. Lederman YS, Balucani C, Steinberg LR, Philip C, Lazar JM, Weedon J, Mirchandani G, Weingast SZ, Viticchi G, Falsetti L, Silvestrini M, Gugger JJ, Aharonoff D, Piran P, Adler Z, Levine SR. Does the Magnitude of the Electrocardiogram QT Interval Dispersion Predict Stroke Outcome? *J Stroke Cerebrovasc Dis.* 2019;28(1):44-8. doi: 10.1016/j.jstrokecerebrovasdis.2018.09.006. PubMed PMID: 30291031.
8. Levine SR, Weingast SZ, Weedon J, Stefanov DG, Katz P, Hurley D, Kasner SE, Khatri P, Broderick JP, Grotta JC, Feldmann E, Panagos PD, Romano JG, Bianchi R, Meyer BC, Scott PA, Kim D, Balucani C. To Treat or Not to Treat? *Stroke.* 2018;49(8):1933-8. doi: 10.1161/STROKEAHA.118.020971. PubMed PMID: 29976582.
9. Liang S. Vaccines for Preventing Influenza in Healthy Individuals. *Acad Emerg Med.* 2018. doi: 10.1111/acem.13668. PubMed PMID: 30461126.
10. Nichol G, Polderman KH, Friberg H, Kurz M, Kapinos G. Perspectives on Temperature Management. *Ther Hypothermia Temp Manag.* 2018. doi: 10.1089/ther.2018.29052.gjn. PubMed PMID: 30431392.
11. Schriger DL, Menchine M, Wiechmann W, Carmelli G. Emergency Physician Risk Estimates and Admission Decisions for Chest Pain: A Web-Based Scenario Study. *Ann Emerg Med.* 2018;72(5):511-22. doi: 10.1016/j.annemergmed.2018.03.003. PubMed PMID: 29685372.

DEPARTMENT OF EMERGENCY MEDICINE

12. Quinn A, Chan TM, Sampson C, Grossman C, Butts C, Casey J, Caretta-Weyer H, Gottlieb M. Curated Collections for Educators: Five Key Papers on Evaluating Digital Scholarship. *Cureus*. 2018;10(1):e2021. Epub 2018/03/14. doi: 10.7759/cureus.2021. PubMed PMID: 29531874; PMCID: PMC5837232.69452.
13. Kelson KR, Riscinti M, Secko M, deSouza IS. Point-of-care Ultrasonography of a Rare Cause of Hemoperitoneum. *Clin Pract Cases Emerg Med*. 2018;2(4):320-2. Epub 2018/11/18. doi: 10.5811/cpcem.2018.7.38210. PubMed PMID: 30443616; PMCID: PMC6230347
14. Zehtabchi S, Fatovich DM. Moving Beyond Diagnostic Accuracy With Systematic Reviews and Meta-analyses. *Acad Emerg Med*. 2018. Epub 2018/09/18. doi: 10.1111/acem.13617. PubMed PMID: 30222234.
15. Segarra TJ, Ritchie M, Zehtabchi S. Hormone Therapy for Primary Prevention of Cardiovascular Disease in Postmenopausal Women. *Am Fam Physician*. 2018;98(7):Online. Epub 2018/09/27. PubMed PMID: 30252424.
16. Kelson K, deSouza IS. Epinephrine for Out-of-hospital Cardiac Arrest. *Acad Emerg Med*. 2018. doi: 10.1111/acem.13543. PubMed PMID: 30066445.
17. Blumenberg A, Benabbas R, de Souza I, Conigliaro A, Paladino L, Warman E, Sinert R, Wiener SW. Correction to: Utility of 2-Pyridine Aldoxime Methyl Chloride (2-PAM) for Acute Organophosphate Poisoning: A Systematic Review and Meta-Analysis. *J Med Toxicol*. 2018;14(1):99. Epub 2018/01/05. doi: 10.1007/s13181-017-0648-y. PubMed PMID: 29299760; PMCID: PMC6013730.
18. Blumenberg A, Benabbas R, deSouza IS, Conigliaro A, Paladino L, Warman E, Sinert R, Wiener SW. Utility of 2-Pyridine Aldoxime Methyl Chloride (2-PAM) for Acute Organophosphate Poisoning: A Systematic Review and Meta-Analysis. *J Med Toxicol*. 2018;14(1):91-8. Epub 2017/12/13. doi: 10.1007/s13181-017-0636-2. PubMed PMID: 29230717; PMCID: PMC6013731.
19. Conigliaro A, Benabbas R, Schnitzer E, Janairo MP, Sinert R. Protocolized Laboratory Screening for the Medical Clearance of Psychiatric Patients in the Emergency Department: A Systematic Review. *Acad Emerg Med*. 2018;25(5):566-76. Epub 2017/12/22. doi: 10.1111/acem.13368. PubMed PMID: 29266617.
20. Johnston SC, Easton JD, Farrant M, Barsan W, Conwit RA, Elm JJ, Kim AS, Lindblad AS, Palesch YY. Clopidogrel and Aspirin in Acute Ischemic Stroke and High-Risk TIA. *The New England journal of medicine*. 2018;379(3):215-25. Epub 2018/05/17. doi: 10.1056/NEJMoa1800410. PubMed PMID: 29766750; PMCID: PMC6193486.
21. Martindale JL, Secko M, Kilpatrick JF, deSouza IS, Paladino L, Aherne A, Mehta N, Conigliaro A, Sinert R. Serial Sonographic Assessment of Pulmonary Edema in Patients With Hypertensive Acute Heart Failure. *J Ultrasound Med*. 2018;37(2):337-45. Epub 2017/08/02. doi: 10.1002/jum.14336. PubMed PMID: 28758715; PMCID: PMC5798430.
22. Massey MJ, Hou PC, Filbin M, Wang H, Ngo L, Huang DT, Aird WC, Novack V, Trzeciak S, Yealy DM, Kellum JA, Angus DC, Shapiro NI. Microcirculatory perfusion disturbances in septic shock: results from the ProCESS trial. *Critical care (London, England)*. 2018;22(1):308. Epub 2018/11/22. doi: 10.1186/s13054-018-2240-5. PubMed PMID: 30458880; PMCID: PMC6245723.

DEPARTMENT OF EMERGENCY MEDICINE

23. Sinert R. Acute Kidney Injury: Who Should be Followed-up and by Whom? Acad Emerg Med. 2018; 25(7):807-10. Epub 2018/01/24. doi: 10.1111/acem.13378. PubMed PMID: 29360248.
24. Liang T, Roseman E, Gao M, Sinert R. The Utility of the Focused Assessment with Sonography in Trauma (FAST) Exam in Pediatric Blunt Abdominal Trauma: A Systematic Review and Meta-Analysis. Pediatric Emergency Care 2018 Nov
25. Martin MJ, Brown CVR, Shatz DV, Alam HB, Brasel KJ, Hauser CJ, de Moya M, Moore EE, Rowell SE, Vercruyse GA, Baron BJ, Inaba K. Evaluation and management of abdominal stab wounds:A Western Trauma Association critical decisions algorithm. J Trauma Acute Care Surg. 2018 Nov;85(5):1007-1015.
26. Levene RJ, Pollak-Christian E, Wolfram S. A 21st Century Problem: Cannabis Toxicity in a 13-Month-Old Child. J Emerg Med. 2018 Oct 16

Book Chapters:

- 1 Tsai V, Sinert RH. Temporomandibular Joint Syndrome in Emergency Medicine. medscape.com (2018). [online] available at: <https://authoring.medscape.com/content/809598>
- 2 Semenovskaya Z, Sinert RH. Hyponatremia in Emergency Medicine. medscape.com (2018). [online] available at: <https://authoring.medscape.com/content/766683>
- 3 Amir Estephan, Sinert RH. Abnormal (Dysfunctional) Uterine Bleeding in Emergency Medicine. medscape.com (2018). [online] available at: <https://authoring.medscape.com/content/795587>
- 4 Bobak Zonnoor, Sinert RH. Periorbital Infections in Emergency Medicine. medscape.com (2018). [online] available at: <https://authoring.medscape.com/content/798397>
- 5 kelson k, desouza i, zehtabchi s. Epinephrine for Out-of-Hospital Cardiac Arrest. Published on TheNNT.com (2018). available at: <http://www.thennt.com/nnt/epinephrine-hospital-cardiac-arrest/>
- 6 kelson k, canepa c. Acetazolamide for Prevention of Acute Mountain Sickness. Published on TheNNT.com (2017). available at: <http://www.thennt.com/nnt/acetazolamide-prevention-acute-mountain-sickness-ams/>
- 7 griesinger m, valesky w. Corticosteroids for Bell's Palsy (Idiopathic Facial Paralysis). Published on TheNNT.com (2018). available at: <Http://www.thennt.com/nnt/corticosteroids-bells-palsy-idiopathic-facial-paralysis-2018>
- 8 waseem m, gersheimer j. salicylate toxicity. medscape (2018). [online]. available at: <https://emedicine.medscape.com/article/1009987-overview>
- 9 Barsoom R, Sinert RH, Uterine Prolapse in Emergency Medicine. Medscape.com (2018). [online] available at: <https://authoring.medscape.com/content/797295>
- 10 Smith T, Diversity and Inclusion in Quality Patient Care, Springer 2018
- 11 Gersheimer J, Asthma Exacerbation: "Sneaky" Triggers and Clinical Pearls <http://www.emdocs.net/asthma-exacerbation-sneaky-triggers-and-clinical-pearls/>, 2018

DEPARTMENT OF EMERGENCY MEDICINE

#FOAMED

- 1 [Aurrecochoea, A. Multiple Myeloma.](http://blog.clinicalmonster.com/2018/11/20/multiple-myeloma/)
- 2 [Murchison, C. Femur Fracture in the ED – Please Remove the Traction](http://blog.clinicalmonster.com/2018/10/29/femur-fracture-remove-the-traction/)
- 3 [Murchison, C. Wednesday Wrap-up 11/28 – Anaphylaxis, AV Node Blocks and Cardiotoxic Drugs.](http://blog.clinicalmonster.com/2018/11/29/wednesday-wrap-up-11-28/)
- 4 [Shan, G. To Pan Scan or Not To Pan Scan – Does every trauma patient need a whole body CT?](http://blog.clinicalmonster.com/2018/12/17/to-pan-scan-or-not-to-pan-scan/)
- 5 [Aurrecochea, A. Bored Review – DKA.](http://blog.clinicalmonster.com/2018/10/dka/)
- 6 [Berland, N. “Seeing little people”... and tachycardia – An intentional ingestion.](http://blog.clinicalmonster.com/2018/10/seeing-little-people-with-tachycardia-an-intentional-ingestion/)
- 7 [Frisch, S. Journal Club: Pro-procalcitonin or anti-?](http://blog.clinicalmonster.com/2018/10/journal-club-pro-procalcitonin-or-anti-?)

PHYSICIAN INITIATED STUDIES

Actively Enrolling

1. Intranasal Vs Intravenous Ketamine for Sedation

Feasibility study to determine effectiveness and complications of intranasal ketamine for pediatric conscious sedation

Principal Investigator: Majo Joseph, MD

Principal Investigator: Jennifer Chao, MD

Sub-Investigator: Richard Sinert, DO

2. Initiating Inhaled Corticosteroid Therapy at Discharge from the Pediatric Emergency Department to Prevent Asthma Relapse: A Randomized Control Trial

Principal Investigator: Tian Liang MD

Principal Investigator: Jennifer Chao, MD

Sub-Investigator: Shahriar Zehtabchi, MD

STUDIES IN DEVELOPMENT

1. Reaction Time to Peripheral Stimuli as a Potential Biomarker of Post-Concussive Syndrome in Patients with Mild Traumatic Brain Injury.

PI : Dr. Shahriar Zehtabchi

DEPARTMENT OF EMERGENCY MEDICINE

2. **Utility of Near Infrared Spectrophotometry Plus EEG in Predicting Post-Concussive Syndrome in Patients with Mild Traumatic Brain Injury**

PI : Dr. Shahriar Zehtabchi

MANUSCRIPTS IN PREPARATION:

SUBMITTED

1. Roshanak Benabbas, Gururaj Shan, Olumide Akindutire, Ninfa Mehta, Richard Sinert. The Effects Of Pay For Performance Compensation Model Implementation On Vaccination Rate: A Systematic Review. Submitted to Health Policy
2. Chaganti P, Zehtabchi S A systematic review of foam dressings for 2nd degree burns
3. Aditi Jayanth, Roshanak Benabbas, Jennifer Chao, Richard Sinert. Diagnostic Modalities to Determine Ventriculoperitoneal Shunt Malfunction: A Systematic Review and Meta-analysis
4. Andrea Greene, Roshanak Benabbas, Richard Sinert. Utility of Short Questionnaire Screening Tests To Determine The Probability Of Alcohol Consumption During the First Trimester Of Pregnancy
5. Bon C, Riscinti M, Sexton T, Benabbas R, Mehta N, Sinert R. Utility of Carotid Artery Point-of-Care Ultrasound in Assessing Fluid Responsiveness: A Systematic Review and Meta-analysis

IN DEVELOPMENT

1. deSouza S I, Benabbas R, Carmelli G, Sexton T, Sinert R. Pharmacologic Cardioversion of Acute-Onset Atrial Fibrillation and Atrial Flutter: A Systematic Review and Network Meta-analysis of Randomized Controlled Trials
2. Jaramillo J, Joseph M, Al Dubayan M, Sinert R. Diabetic KetoAlkalosis: A Case Series
3. Paladino L, Bourderakis L, McKee S, Baron B, Sinert R. The Workup for Zone-2 Penetrating Neck Injuries: Systematic Review and Meta-Analysis
4. Gordon I, Sinert R. The Utility of Ultrasound in Detecting Skull fractures in Pediatric Blunt Head Trauma: Systematic Review and Meta-Analysis
5. Bala N, Chao J, Sinert R. The Prevalence of Bacteremia in Well-Appearing Febrile Sickle Cell Pediatric Patients: Systematic Review and Meta-Analysis

FUNDED STUDIES

Actively Enrolling

1. **Neurological Emergency Treat Trials (NETT) – KCHC/SUNY – HUB**
(Spokes: Lincoln and Maimonides)

DEPARTMENT OF EMERGENCY MEDICINE

NIH-NINDS 1U10NS080377-01

Barsan(PI)

2012-2017

Neurological Emergency Treatment Trials (NETT). An infrastructure grant to support multiple treatment trials (Phase 3 Clinical Studies) from NINDS. The Hub consists of Kings County Hospital and SUNY-Downstate Medical Center with spokes of Lincoln Hospital and Maimonides Medical Center.

Role: Co-Principal Investigator (KCHC)- Richard Sinert, DO

Role: Co-Principal Investigator (UHB)- Steven Levine, MD

2. ClinicalTrials.gov Identifier: NCT02011685 (Ogedegbe-PI) 2014-

Practice-Based Trial of Home BP Telemonitoring Among Minority Stroke Survivors

The primary objective is to assess the effects of HBPTM+NCM versus HBPTM alone on change in systolic blood pressure (SBP) from baseline to 12 months and stroke recurrence at 24 months in minority stroke patients with uncontrolled hypertension.

The secondary objective is to compare the cost-effectiveness of the two interventions at 12- and 24-months.

Sponsors: New York University School of Medicine

National Institute of Neurological Disorders and Stroke (NINDS)

Role: Site Investigator: Teresa Smith, MD

Role: Co-Investigator: Richard Sinert, DO

3. SGLT2 Inhibition in Diabetes and Heart Failure: NCT02862067 (BI 2016) (Emperor Study)

To measure the effects of Empagliflozin on cardiorespiratory fitness in patients with type 2 diabetes and heart failure with reduced ejection fraction or systolic heart failure.

Sponsor: Virginia Commonwealth University

Site Investigator (KCHC)- Lorenzo Paladino, MD

Sub-Investigator (KCHC) – Richard Sinert, DO

4. ClinicalTrials.gov Identifier: NCT02187003 (Pfizer) 2015

Efficacy and Safety of Rivipansel (GMI-1070) in the Treatment of Vaso-Occlusive Crisis in Hospitalized Subjects With Sickle Cell Disease (RESET)

A Phase 3, Multicenter, Randomized, Double-blind, Placebo-controlled, Parallel-group Study To Evaluate The Efficacy And Safety Of Rivipansel (Gmi-1070) In The Treatment Of Vaso-occlusive Crisis In Hospitalized Subjects With Sickle Cell Disease

Sponsor: Pfizer

Principal Investigator: Teresa Smith, MD (UHB) & Richard Sinert, DO (KCHC) Role:

Sub-Investigator : Richard Sinert, DO (UHB) & Teresa Smith, MD (KCHC)

STUDIES IN DEVELOPMENT

1. ClinicalTrials.gov Identifier: NCT02088957 (UCB)

2014-

A Randomized, Open-label, Multicenter, Parallel-group, Exploratory Study to Evaluate the Efficacy of Intravenous Brivaracetam and Intravenous Phenytoin in Subjects Experiencing Nonconvulsive Electrographic Seizures

DEPARTMENT OF EMERGENCY MEDICINE

The primary objective of this study is to compare the efficacy of Brivaracetam and Phenytoin, both administered intravenously, in adult subjects experiencing nonconvulsive electrographic seizures.

Sponsor – UCB

Site Investigator: Shahriar Zehtabchi

2. ClinicalTrials.gov Identifier: NCT03016325 2017-

A Multicenter, Randomized, Double-Blind, Parallel-Group, Placebo-Controlled, Dose-Ranging, Phase 2b Study of the Safety and Efficacy of Continuous 48-Hour Intravenous Infusions of BMS-986231 in Hospitalized Patients with Heart Failure and Impaired Systolic Function

Sponsor – BMS

Site Investigator: Lorenzo Paladino, MD (KCHC)

Sub-Investigator: Richard Sinert, DO (KCHC)

STUDIES COMPLETED

1. ClinicalTrials.gov Identifier NCT02246439 (Redhill) 2015

RHB-102 (Bimodal Release Ondansetron) for Acute Gastroenteritis or Gastritis (GUARD)

Randomized, Placebo-Controlled, Phase 3 Trial of RHB-102 (Ondansetron 24 mg Bimodal Release Tablets) for Acute Gastroenteritis.

The study will evaluate the safety and efficacy of RHB-102 in treating Acute Gastroenteritis, by comparing it to placebo.

Sponsor: Redhill Pharmaceuticals

Site Investigator: Lorenzo Paladino, MD (KCHC & UHB)

Sub-Investigator: Richard Sinert, DO (KCHC & UHB)

2. ClinicalTrials.gov Identifier: NCT02745054

Safety of Oral Anticoagulants Registry (SOAR)

The goal of SOAR is to characterize the clinical and economic impact of clinicians' responses to major bleeding complications and pre-procedural concerns for bleeding risk in patients treated with oral anticoagulants (warfarin, anti-Xa orals, and anti-thrombin (IIa) orals) who present to the ED or in the hospital with acute illness or injury, with the eventual aim of informing the development of improved approaches to the management of OACs in the ED.

Sponsor: Hospital Quality Foundation

Role: Sub-Investigator (NYC Health & Hospitals) – Richard Sinert, DO

3. ClinicalTrials.gov Identifier: NCT02554890 (Novartis) 2016

comParlson Of Sacubitril/valsartaN Versus Enalapril on Effect on ntpRo-bnp in Patients Stabilized From an Acute Heart Failure Episode (PIONEER-HF)

The purpose of this study is to assess the effect of in-hospital initiation of sacubitril/valsartan (LCZ696) vs. enalapril on time averaged proportional change in NT-

DEPARTMENT OF EMERGENCY MEDICINE

proBNP in patients who have been stabilized following hospitalization for acute decompensated heart failure (ADHF) and reduced ejection fraction (left ventricular ejection fraction (LVEF) \leq 40%).

Sponsor: Novartis

Site Investigator (KCHC)- Lorenzo Paladino, MD

Sub-Investigator (KCHC) – Richard Sinert, DO

**4. ClinicalTrials.gov Identifier: NCT01960075 (Kapur - PI) 2015
A Study to Compare the Effectiveness of Three Drugs, Fosphenytoin, Levetiracetam and Valproic Acid in Terminating Prolonged Seizures (Status Epilepticus) That do Not Respond to Benzodiazepines. (ESETT)**

The primary objective of the trial is to determine the most effective and/or the least effective treatment of benzodiazepine-refractory status epilepticus (established status epilepticus) among patients older than 2 years. There are three active treatment arms being compared: fosphenytoin (FOS), Levetiracetam (LEV) and Valproic acid (VPA).

Sponsor: NETT

Site Investigator: Shahriar Zehtabchi, MD

Role: Sub-Investigator – Lorenzo Paladino, MD

Role: Sub-Investigator – Richard Sinert, DO

**5. NIH-NINDS 5U01NS062835 Johnston (PI) 2012-2017
Stroke Hyperglycemia Insulin Network Effort (SHINE) Trial**

The primary goal of the SHINE trial is to determine if aggressive glycemic control in the setting of acute stroke decreases stroke-related morbidity.

Role: Principal Investigator (KCHC) – Susan Law, MD

Role: Sub-Investigator – Lorenzo Paladino, MD

Role: Sub-Investigator – Richard Sinert, DO

Role: Sub-Investigator – Shahriar Zehtabchi, MD

**6. NIH-NINDS U01NS062835 (Johnson, Easton, Kim PI) 2013-2015
Platelet-Oriented Inhibition in New TIA and minor ischemic stroke (POINT)
Trial**

Is a prospective, randomized, double-blind, multicenter trial with the primary null hypothesis that, in patients with TIA or minor ischemic stroke treated with aspirin 50-325 mg/day, there is no difference in the event-free survival at 90 days in those treated with clopidogrel (600 mg loading dose then 75 mg/day) compared to placebo when subjects are randomized within 12 hours of time last known free of new ischemic symptoms.

Role: Principal Investigator (KCHC) – Susan Law, MD

Role: Sub-Investigator – Lorenzo Paladino, MD

Role: Sub-Investigator – Richard Sinert, DO

Role: Sub-Investigator – Shahriar Zehtabchi, MD

DEPARTMENT OF EMERGENCY MEDICINE

7. ClinicalTrials.gov Identifier NCT02584660 (Janssen Scientific Affairs, LLC 2016)

A Study of Rivaroxaban for Early Discharge of Low Risk Pulmonary Embolism From the Emergency Department (MERCURY PE)

The purpose of the study is to evaluate that low risk Pulmonary Embolism (PE) participants who are discharged from the Emergency Department (ED) to the home environment and treated with rivaroxaban as outpatients have fewer total days in the hospital for bleeding and/or venous thromboembolism (VTE) events through Day 30 compared to participants who are treated with initial hospitalization and standard-of-care.

Sponsor: Janssen Scientific Affairs, LLC

Site Investigator: Lorenzo Paladino, MD (UHB)

Sub-Investigator: Richard Sinert, DO (UHB)

8. ClinicalTrials.gov Identifier NCT02656875 (Travena) 2016

A Open-label Study to Evaluate the Safety of TRV130 in Patients With Acute Pain (ATHENA-2)

Patients with moderate to severe pain caused by medical conditions or surgery, who require IV opioid therapy may be enrolled in this open label safety study. Patients will be treated with TRV130 by IV bolus, PCA (patient-controlled analgesia) administration, or both, as determined by the investigator, for a duration not to exceed 14 days.

Sponsor: Travena INC.

Site Investigator: Lorenzo Paladino, MD (KCHC & UHB)

Sub-Investigator: Richard Sinert, DO (KCHC & UHB)

9. Sickle Cell Needs Assessment for Comprehensive Coordinated Care Program

Sponsor: SUNY-Downstate President Disparity Grant

Principal Investigator: Teresa Smith, MD

10. Study Protocol Number CLCZ696BUS05 (Novartis) 2016

Observational Registry of Treatment Patterns in U.S. Heart Failure Patients with Reduced Ejection Fraction (CHAMP-HF)

This study is an observational, nonrandomized cohort registry study at participating US sites of adult heart failure patients with reduced ejection fraction. The goal is to consecutively recruit chronic heart failure patients with reduced ejection fraction who are treated with oral pharmacotherapy as part of their 'real world' heart failure management. The primary analysis of study outcomes will occur at 12 months. Patients will be followed through a maximum duration of 24 months or until death or study withdrawal.

Sponsor: Novartis

Role: Site Investigator (KCHC & UHB)- Lorenzo Paladino, MD

Role: Sub-Investigator (KCHC &UHB) – Richard Sinert, DO

11. RALES Study

Prospective observational study to identify the resolution of acute lung edema after treatment for acute pulmonary edema after treatment by sonography (B-lines) Inclusion

DEPARTMENT OF EMERGENCY MEDICINE

criteria: Patients with Acute Pulmonary Edema with Heart Failure and systolic Blood pressure > 180 mmHg. Enrollment within 15 minutes of triage

Principal Investigator: Jennifer Martindale, MD

Sub-Investigator: Richard Sinert, DO

Sub-Investigator: John Kilpatrick, MD

Sub-Investigator: Richard Sinert, DO

Sub-Investigator: Ninfa Mehta, MD

Sub-Investigator: Scott Kendall, MD

Sub-Investigator: Ian deSouza, MD

Sub-Investigator: Lorenzo Paladino, MD

**12. ClinicalTrials.gov Identifier: NCT02220725 (Levy – PI) 2015 -
Prospective, Open-Label Study of Andexanet Alfa in Patients Receiving a Factor
XA Inhibitor Who Have Acute Major Bleeding (ANNEXA-4 Study)**

To evaluate the hemostatic efficacy of Andexanet in spontaneous or traumatically induced major bleeding in patients who have reduced fXa activity from use of a fXa inhibitor.

Sponsor: Portola Pharmaceutical, Inc.

Role: Site Investigator: Sage Weiner, MD (UHB) & Richard Sinert, DO (KCHC)

Role: Sub-Investigator - Richard Sinert, DO (UHB) & Sage Weiner, MD (KCHC)

**13. ClinicalTrials.gov Identifier: NCT01546532 (Metra Marco - PI) 2013-2016
A multicenter, randomized, double-blind, placebo controlled phase III study
to evaluate the efficacy, safety and tolerability of Serelaxin when added to
standard therapy in acute heart failure patients (Relax-2)**

Efficacy, Safety and Tolerability of Serelaxin When Added to Standard Therapy in AHF

Sponsor: Novartis

Role: Site Investigator (KCHC & UHB)- Lorenzo Paladino, MD

Role: Sub-Investigator (UHB) – Jason Lazar, MD (Cardiology)

Role Sub-Investigator (KCHC) – Ron Pedalino, MD (Cardiology)

Role Sub-Investigator (KCHC) – Yuliy Kats, MD (Cardiology)

Role: Sub-Investigator – Ian deSouza, MD

Role: Sub-Investigator – Michael Secko, MD

Role: Sub-Investigator – Ninfa Mehta, MD

Role: Sub-Investigator – Teresa Smith, MD

Role: Sub-Investigator – Marie Romney, MD

Role: Sub-Investigator – Richard Sinert, DO

Role: Sub-Investigator – Jennifer Martindale, MD

**14. ClinicalTrials.gov Identifier: NCT02104947 (Pollack – PI) 2014 –
A Phase III Case Series Clinical Study of the Reversal of the Anticoagulant Effects of
Dabigatran by Intravenous Administration of 5.0g Idarucizumab (BI 655075) in**

DEPARTMENT OF EMERGENCY MEDICINE

Patients Treated With Dabigatran Etexilate Who Have Uncontrolled Bleeding or Require Emergency Surgery or Procedures. (RE-VERSE-AD)

Evaluate the reversal of the anticoagulant effects of dabigatran by IV administration of 5.0g idarucizumab in patients treated with dabigatran etexilate who have uncontrolled bleeding or require emergency surgery or procedures.

Sponsor: Boehringer Ingelheim

Role: Site Investigator: Sage Weiner, MD (UHB) & Richard Sinert, DO (KCHC)

Role: Sub-Investigator - Richard Sinert, DO (UHB) & Sage Weiner, MD (KCHC)

15. NIH-NINDS 5NETT028749-3 Wright (PI) 2012-2017

Protect III Trial – Enrollment Suspended

The primary goal of the Protect III trial is to determine if Intravenous Progesterone improves the outcome of patients suffering a Traumatic Brain Injury

Role: Co-Site Investigator (KCUC)- Eric Legome, MD

Role: Co-Site Investigator (KCUC)- Ashika Jane, MD

Role: Sub-Investigator – Lorenzo Paladino, MD

Role: Sub-Investigator – Jennifer Martindale, MD

Role: Sub-Investigator – Richard Sinert, DO

16. NIH-NINDS 1U01NS062091 Qureshi (PI) 2010 – 2015

Antihypertensive Treatment of Acute Cerebral Hemorrhage (ATACH-II)

The goal of this randomized, phase III clinical trial is to determine whether conventional or aggressive blood pressure lowering in acute intracerebral hemorrhage is more effective therapy.

Role: Principal Investigator (KCHC) – Kaedrea Jackson, MD

Role: Sub-Investigator – Lorenzo Paladino, MD

Role: Sub-Investigator – Jennifer Martindale, MD

Role: Sub-Investigator – Richard Sinert, DO

Role: Sub-Investigator – Shahriar Zehtabchi, MD

17. ClinicalTrials.gov Identifier: NCT01919801 (Kimuar PI) 2013-2015

Blinded Safety & Efficacy Placebo Controlled Study of Icatibant for Angiotensin Converting Enzyme Inhibitor Angioedema (CAMEO Study)

This study is being conducted to compare the safety and efficacy of icatibant with placebo in the treatment for Angiotensin-Converting Enzyme Inhibitor (ACE-I)-Induced Angioedema in Adults.

Sponsor: Shire Human Genetic Therapies, Inc.

Role: Principal Investigator (KCHC & UHB)- Richard Sinert, DO

Role: Sub-Investigator – Lorenzo Paladino, MD

Role: Sub-Investigator – Ian deSouza, MD

Role: Sub-Investigator – Michael Secko, MD

Role: Sub-Investigator – Ninfa Mehta, MD

Role: Sub-Investigator – Teresa Smith, MD

Role: Sub-Investigator – Marie Romney, MD

Role: Sub-Investigator – Richard Sinert, DO

DEPARTMENT OF EMERGENCY MEDICINE

Role: Sub-Investigator – Jennifer Martindale, MD

18. ClinicalTrials.gov Identifier: NCT01661634 (O'Connor & Peacock – PI's) 2014 – Phase III, Multicenter, Randomized, Double-Blind, Placebo-Controlled Trial to Evaluate the Efficacy and Safety of Ularitide (Urodilatin) Intravenous Infusion in Patients Suffering From Acute Decompensated Heart Failure [TRUE-AHF]

To evaluate the effect of a continuous intravenous (IV) ularitide infusion on the clinical status and cardiovascular mortality of patients with ADHF.

Sponsor: Cardiorentis Ltd.

Role: Site Investigator (KCHC & UHB)- Lorenzo Paladino, MD

Role: Sub-Investigator (UHB) – Jason Lazar, MD (Cardiology)

Role Sub-Investigator (KCHC) – Ron Pedalino, MD (Cardiology)

Role Sub-Investigator (KCHC) – Yuliay Kats, MD (Cardiology)

Role: Sub-Investigator – Ian deSouza, MD

Role: Sub-Investigator – Michael Secko, MD

Role: Sub-Investigator – Ninfa Mehta, MD

Role: Sub-Investigator – Teresa Smith, MD

Role: Sub-Investigator – Marie Romney, MD

Role: Sub-Investigator – Richard Sinert, DO

Role: Sub-Investigator – Jennifer Martindale, MD

19. ClinicalTrials.gov Identifier: NCT01966601 (Soergel – PI) 2014

A Randomized, Double-Blind, Placebo-Controlled, Dose Ranging Study to Explore the Efficacy of TRV027 in Patients Hospitalized for Acute Decompensated Heart Failure (BLAST)

To evaluate the overall safety and efficacy of TRV027 when administered in addition to standard of care (SOC) on mortality, morbidity, dyspnea, and length of stay in patients hospitalized with Acute Decompensated Heart Failure (ADHF).

Sponsor: Travena, Inc.

Role: Site Investigator (KCHC & UHB)- Lorenzo Paladino, MD

Role: Sub-Investigator (UHB) – Jason Lazar, MD (Cardiology)

Role Sub-Investigator (KCHC) – Ron Pedalino, MD (Cardiology)

Role Sub-Investigator (KCHC) – Yuliay Kats, MD (Cardiology)

Role: Sub-Investigator – Ian deSouza, MD

Role: Sub-Investigator – Michael Secko, MD

Role: Sub-Investigator – Ninfa Mehta, MD

Role: Sub-Investigator – Teresa Smith, MD

Role: Sub-Investigator – Marie Romney, MD

Role: Sub-Investigator – Richard Sinert, DO

Role: Sub-Investigator – Jennifer Martindale, MD

20. ClinicalTrials.gov Identifier: NCT02520297 (Travena) 2015

A Pilot Study of TRV130 for the Treatment of Fracture Pain

DEPARTMENT OF EMERGENCY MEDICINE

The primary objective is to evaluate the analgesic efficacy of TRV130 for moderate to severe acute pain in patients presenting to the emergency department (ED) with a suspected/known, unilateral, closed long bone fracture.

Sponsor: Travena, Inc.

Role: Site Investigator (KCHC)-Lorenzo Paladino, MD

Role: Sub-Investigator (KCHC): Richard Sinert, DO

21. ClinicalTrials.gov Identifier NCT02607085 (ZS Pharma, Inc) 2015

REal World EVIDence for TrEAtment of HyperkaLemia in Emergency

Department: Multicenter, Prospective, Observational Study (REVEAL-ED)

This study evaluates the management of subjects with Standard of Care (SOC) when admitted to the Emergency Department (ED) with hyperkalemia (potassium value ≥ 5.5 mmol/L).

Sponsor: Redhill Pharmaceuticals

Site Investigator: Lorenzo Paladino, MD (KCHC & UHB)

Sub-Investigator: Richard Sinert, DO (KCHC & UHB)

22. NIH 49204/Project 1076752 Small business award (Sinert PI) 2005-2007

Biomedica Management Corp.

To develop a new drug to treat hemorrhagic shock in a rodent model

PI: Richard Sinert, DO

Sub-Investigator: Lorenzo Paladino

23. NIH 52273/Project Small business award (Sinert PI) 2005-2007

Biomedica Management Corp. –

To determine efficacy of an anti-inflammatory agent in a rodent model of sepsis\

PI: Richard Sinert, DO

Sub-Investigator: Lorenzo Paladino

24. DYAX Corporation Protocol #DX-88/27 2011-2012

Evaluation of Ecallantide for the Acute Treatment of Angiotensin Converting Enzyme Inhibition Induced Angioedema

Site Investigator: Richard Sinert, DO