

Cleveland Clinic Akron General  
Pharmacy Residency Research Projects

**Academic Year: 2019-2020**

**A Retrospective Cohort Evaluating the Efficacy of Ceftriaxone combined with Daptomycin versus Vancomycin in Staphylococcus aureus Infective Endocarditis**

**Resident** David Comshaw-Arnold

**Advisors** Freshwater, Dustin (Primary); Mistry, Bhavin;

**Incidence of fluoroquinolone prescribing in the outpatient setting and associated adverse events**

**Resident** Kristine Duly

**Advisors** Boros, Melanie (Primary); Frazee, Larry; Fanous, Amy; Ken Wong, MD

**The evaluation of prescribing patterns in post-surgical patients receiving concomitant tramadol and serotonergic medications.**

**Resident** Christina Brown

**Advisors** Ambroziak, Ronda (Primary); Frazee, Larry; Garlock, Jenna;

**Weight-based insulin dosing compared to titration driven by glucose reduction in patients with diabetic ketoacidosis.**

**Resident** Nathan Bohach

**Advisors** Fowler, Melissa (Primary); Cunningham, Brittany;

**Predictors of negative outcomes following Direct Oral Anticoagulant (DOAC) reversal with Factor Eight Inhibitor Bypassing Activity (FEIBA) in patients that develop an Intracranial Hemorrhage (ICH)**

**Resident** Martha Zimmerman

**Advisors** Williams, Andrea (Primary); Heimann, Kathryn; Georgia Zacholoulos, DO

**Evaluation of intravenous lorazepam dosing strategies and the incidence of refractory status epilepticus**

**Resident** Alicia Cetnarowski

**Advisors** Fowler, Melissa (Primary); Cunningham, Brittany;

**Academic Year: 2018-2019**

**Outpatient Prescribing of Antibiotics for Acute Exacerbation of Chronic Obstructive Pulmonary Disease**

**Resident** Akshith Dass

**Advisors** Brown, Tim; Mistry, Bhavin (Primary); Freshwater, Dustin;

**The Impact of Ketamine on Opioid Requirements for Analgesia in Trauma Patients.**

**Resident** Sara Shuss

**Advisors** Zimmerman, Jake (Primary); Williams, Andrea; William Leukhardt, MD; Nathan Hieb, MD

**Impact of antihistamine administration on morphine milligram equivalent requirements utilized for the treatment of Sickle Cell Disease associated vaso-occlusive crisis**

**Resident** Christopher Tweed

**Advisors** Townley, Caroline (Primary); Benedetti, Amanda; Emshoff, Jessica (Primary); Ambroziak, Ronda; John Petrus, MD

**Evaluation of Direct Oral Anticoagulant Use for Cancer-Associated Thromboembolism**

**Resident** Sarah Wheeler

**Advisors** Boros, Melanie (Primary); Townley, Caroline; Laurie Matt-Amaral, MD

# Cleveland Clinic Akron General Pharmacy Residency Research Projects

## Efficacy of Levetiracetam for Seizure Prophylaxis in Adults with Intracranial Hemorrhage

**Resident** Sean Bennett

**Advisors** Garlock, Jenna (Primary); Cunningham, Brittany; Fowler, Melissa;

## Evaluation of hemodynamic adverse effects of dexmedetomidine compared to propofol in critically ill trauma and surgical patients

**Resident** Carli Nicholson

**Advisors** Cucci, Michaelia (Primary); Frazee, Larry;

## Academic Year: 2017-2018

## Evaluation of serum vitamin B12 levels and supplementation utilization in ambulatory patients prescribed metformin for type 2 diabetes mellitus

**Resident** Zachary Brock

**Advisors** Rybarczyk, Amy (Primary); Boros, Melanie;

## Evaluation of urine cultures in patients discharged from the emergency department

**Resident** Amy Fabian

**Advisors** Garlock, Jenna (Primary); Williams, Andrea; Chanda Mullen, PhD; Andrew Yocum, MD

## Evaluation of multi-drug resistant pathogens in a critically ill trauma population

**Resident** Courtney Wooten

**Advisors** Cucci, Michaelia (Primary); Fowler, Melissa; Nathan Hieb, MD; Ali Mallat, MD

**Publication** *Cucci M, Wooten C, Fowler M, Mallat A, Hieb N, Mullen C. Incidence and risk factors associated with multi-drug-resistant pathogens in a critically ill trauma population: a retrospective cohort study. Surg Infect (Larchmt). 2019 Aug 2. doi: 10.1089/sur.2019.031. [Epub ahead of print]*

## External validation of a hypoglycemia risk model on patients admitted to medical/surgical floors

**Resident** Doug Gugel-Bryant

**Advisors** Moorman, John (Primary); Gallegos, Patrick; Townley, Caroline; Chanda Mullen, PhD

## Evaluation of dextromethorphan with select antidepressant therapy for the treatment of depression in the acute-care psychiatric setting

**Resident** Jill Nofziger

**Advisors** Paxos, Chris (Primary); Emshoff, Jessica; Chanda Mullen, PhD

**Publication** *Nofziger JL, Paxos C, Emshoff J, Mullen D. Evaluation of dextromethorphan with select antidepressant therapy for the treatment of depression in the acute care psychiatric setting. Ment Health Clin. 2019 Mar; 9(2): 76–81. Published online 2019 Mar 1. doi: 10.9740/mhc.2019.03.076*

## Impact of discontinuation of amiodarone on warfarin dosing and INR in patients taking warfarin managed through an anticoagulation clinic

**Resident** Gina Panno

**Advisors** Boros, Melanie (Primary); Frazee, Larry; Chanda Mullen, PhD

## Academic Year: 2016-2017

## Evaluation of Perioperative Medication Regimens in Bariatric Surgery Patients

**Resident** Tricia Glaspell

**Advisors** Boros, Melanie (Primary); Frazee, Larry; Moorman, John; Brown, Tim; Amy Laktash MSN, RN, NP-C

# Cleveland Clinic Akron General Pharmacy Residency Research Projects

## **The clinical and economic impact of extended-infusion versus intermittent-infusion piperacillin-tazobactam for selected gram-negative infections at a community medical center**

**Resident** Kevin Krivanek

**Advisors** Rybarczyk, Amy (Primary); Reissig, Jim; Gallegos, Patrick; Ken Koon Wong, MD

## **Evaluation of suspected gonorrhea and chlamydia incidence and the utilization of empiric antibiotics within a large, academic emergency department setting.**

**Resident** Leborah Smith

**Advisors** Garlock, Jenna (Primary); Cucci, Michaelia; Frazee, Larry;

**Publication** *Garlock J, Lee L, Cucci M, Frazee L, Mullen C. Suspected gonorrhea and chlamydia: Incidence and utilization of empiric antibiotics in a health system emergency department. Am J Emerg Med. 2019 May;37(5):884-889. doi: 10.1016/j.ajem.2018.08.015. Epub 2018 Aug 7.*

## **Assessment of Select Components of CMS Core Measure Compliance in Patients with Malignancy and Neutropenic Sepsis**

**Resident** Justin Andras

**Advisors** Boss, Jessica (Primary); Paxos, Chris; McMullen, Nicole; Julie Imani MSN, CNS, OCN

## **A comparison of total cumulative dose of intranasal versus intravenous naloxone in patients with opioid overdose**

**Resident** Colleen Wilaj

**Advisors** Ambroziak, Ronda (Primary); Benedetti, Amanda; Zimmerman, Jake;

## **The Impact of Offering a Urinalysis with Reflex to Culture on Antibiotic Usage and Utilization of Urine Studies for Patients Admitted to an Internal Medicine Service**

**Resident** Leah Dunnells

**Advisors** Mistry, Bhavin (Primary); Frazee, Larry;

## **Academic Year: 2015-2016**

## **Comparison of grade IV neutropenia with pegfilgrastim (Neulasta™) administered by two delivery methods: Onpro™ and manual injection with a prefilled syringe**

**Resident** Caroline Townley

**Advisors** Porter, Courtney (Primary); McMullen, Nicole;

**Publication** *Townley C, Porter C, McMullen N. Comparing grade 4 neutropenia associated with pegfilgrastim administered via the onpro device versus manual injection with a prefilled syringe. JHOP. 2018;8(3).*

## **Patient characteristics associated with avoidance of hospital admission in adults receiving intravenous magnesium sulfate for an asthma exacerbation in the emergency department**

**Resident** Elizabeth Legros

**Advisors** Garlock, Jenna (Primary); Cucci, Michaelia; Rybarczyk, Amy;

## **The prevalence and impact of documenting allergic reaction in penicillin allergic patients**

**Resident** Dana Roman

**Advisors** Mistry, Bhavin (Primary); Reissig, Jim;

## **Evaluation of Atropine Efficacy for Symptomatic Bradycardia in the Emergency Department**

**Resident** Jennifer Jankovsky

**Advisors** Garlock, Jenna (Primary); Zimmerman, Jake;

## **Peri-procedural international normalized ratio (INR) control in patients receiving continuous warfarin therapy for catheter ablation of atrial fibrillation**

**Resident** Laine Vicarel

**Advisors** Boros, Melanie (Primary); Frazee, Larry; Robert Sweikert, MD

# Cleveland Clinic Akron General Pharmacy Residency Research Projects

## Retrospective cohort analysis of patients prescribed statin therapy with or without diagnosis of hepatitis C after myocardial infarction, ischemic stroke, or transient ischemic attack

**Resident** Samantha Loutzenheiser

**Advisors** Rybarczyk, Amy (Primary); Fowler, Melissa;

### Academic Year: 2014-2015

## Clarification of drug allergy information using a standardized patient interview

**Resident** Amy Harig

**Advisors** Rybarczyk, Amy (Primary); Benedetti, Amanda; Zimmerman, Jake;

**Publication** Harig A, Rybarczyk A, Benedetti A, Zimmerman J. Clarification of drug allergy information using a standardized drug allergy questionnaire and interview. *PT* 2018;43(8):480-484, 504.

## Evaluation of oral antipsychotic supplementation of long-acting antipsychotic injections in an acute-care psychiatric setting

**Resident** Jennifer Alastanos

**Advisors** Paxos, Chris (Primary); Boss, Jessica;

**Publication** Alastanos JN, Paxos C, Emshoff J. Evaluation of oral antipsychotic supplementation of select second-generation long-acting injectable antipsychotics in an acute-care psychiatric setting. *Mental Health Clin* 2019;9:18-23.

## Incidence of positive culture results in patients treated with therapeutic hypothermia status post out-of-hospital cardiac arrest

**Resident** Stephen Stoyanov

**Advisors** Schaffner, Jenna (Primary); Zimmerman, Jake; Dreiling, Jodi;

## Evaluation of the incidence and risk factors of propofol-associated hypertriglyceridemia

**Resident** Mackenzie Horning

**Advisors** Dreiling, Jodi (Primary); Berry, Nancy; Frazee, Larry;

## Evaluation of weight based chemotherapy dosing and treatment related toxicities in adult females with breast cancer receiving Adriamycin® and Cytosan® (AC)

**Resident** Nicholas Selle

**Advisors** McMullen, Nicole (Primary); Reissig, Jim;

## The impact of transitions-of-care clinic referral on the composite outcome of 30-day readmission rates and emergency department visitation.

**Resident** Angela Righi

**Advisors** Moorman, John (Primary); Frazee, Larry;

### Academic Year: 2013-2014

## The effects of procalcitonin levels on physician practices on antibiotic treatment: a retrospective cohort

**Resident** Kristen Senson

**Advisors** Mistry, Bhavin (Primary); Gallegos, Patrick; David Watkins, MD

## Efficacy of baclofen in the treatment of acute alcohol withdrawal

**Resident** Melissa Fowler

**Advisors** Dreiling, Jodi (Primary); Zimmerman, Jake;

## Prescriber utilization of Ohio Automated Rx Reporting System (OARRS), a prescription monitoring program

**Resident** Nathaniel Hedrick

**Advisors** Benedetti, Amanda (Primary); Boss, Jessica; Ambroziak, Ronda;

# Cleveland Clinic Akron General Pharmacy Residency Research Projects

## Development and implementation of a protocol for INR self-monitoring in a pharmacist-managed anticoagulation clinic

**Resident** Jason Zupec

**Advisors** Boros, Melanie (Primary); Rybarczyk, Amy;

## Comparison of two piperacillin/tazobactam infusion strategies on the incidence of acute kidney injury

**Resident** Kevin Buehrle

**Advisors** Dreiling, Jodi (Primary); Berry, Nancy;

## Non-Anticoagulation Related Interventions Made in a Pharmacist-Managed Anticoagulation Clinic

**Resident** Michael Hicho

**Advisors** Rybarczyk, Amy (Primary); Boros, Melanie;

**Publication** *Hicho MD, Rybarczyk A, Boros M. Interventions unrelated to anticoagulation in a pharmacist-managed anticoagulation clinic. Am J Health Syst Pharm. 2016 Jun 1;73(11 Suppl 3):S80-7. doi: 10.2146/ajhp150381*

## Academic Year: 2012-2013

## Association of methicillin resistant Staphylococcus aureus (MRSA) nasal colonization with culture results in critically ill patients

**Resident** Phil Maletich

**Advisors** Frazee, Larry (Primary); Dreiling, Jodi; Berry, Nancy;

## Predictors of antipsychotic polypharmacy in an acute-care teaching hospital

**Resident** Deanna Bice

**Advisors** Paxos, Chris (Primary); Boss, Jessica; Moorman, John; Dustin Blakeslee, DO

## Impact of rocuronium administration on time to target internal body temperature in patients treated with therapeutic hypothermia after cardiac arrest

**Resident** Jenna Schaffner

**Advisors** Dreiling, Jodi (Primary); Heimann, Kathryn;

## Red blood cell length of storage and development of deep vein thrombosis in trauma intensive care patients

**Resident** Christina McKenzie

**Advisors** Zimmerman, Jake; Berry, Nancy (Primary); Farid F. Muakkassa, MD

## Academic Year: 2011-2012

## Evaluation of factors associated with achieving glycemic control in a pharmacist-managed diabetes clinic

**Resident** Matthew Kostoff

**Advisors** Boros, Melanie (Primary); Frazee, Larry; Moorman, John;

**Publication** *Kostoff MD, Boros ML, Moorman JM, Frazee LA Evaluation of Factors Associated With Achieving Glycemic Control in a Pharmacist-Managed Diabetes Clinic; Am J Ther. 2014 July/August;21(4):234-239. PubMed PMID: 23344108*

## Physician perceptions of the current level of pharmacy practice in a community teaching hospital

**Resident** Christopher Shelby

**Advisors** Reissig, Jim (Primary); Boss, Jessica; Donley, Kathy; Brown, Tim;

## Antibiotic use for bacteria on urinalysis in patients presenting to the emergency department

**Resident** Kelsey Duplaga

**Advisors** Rybarczyk, Amy (Primary); Zimmerman, Jake; Heimann, Kathryn; Ambroziak, Ronda;

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Comparison of length of stay in two treatment severity criteria in Clostridium difficile infections

**Resident** Kyle Sobecki

**Advisors** Gallegos, Patrick (Primary); Mistry, Bhavin;

Academic Year: 2010-2011

Evaluation of the Effect of Single Dose Etomidate on Mortality in Patients with Traumatic Injury

**Resident** Johnny Chan

**Advisors** Dreiling, Jodi (Primary); Heimann, Kathryn; Zimmerman, Jake; Ann Salvator, MS

Renal function estimates in the trauma/surgical intensive care unit

**Resident** Matthew Grable

**Advisors** Berry, Nancy (Primary); McMullen, Nicole; Mistry, Bhavin; Ann Salvator, MS

The effect of a diagnosis of a depressive disorder on monitoring, control and management of patients with type 2 diabetes mellitus

**Resident** Samantha Ruffing

**Advisors** Paxos, Chris (Primary); Moorman, John; Frazee, Larry;

Evaluation of the management of suspected heparin-induced thrombocytopenia using a clinical probability score

**Resident** Amanda Tomko

**Advisors** Rybarczyk, Amy (Primary); Boros, Melanie; Reissig, Jim;

Academic Year: 2009-2010

Assessment of Nutrition Support in Acute Pancreatitis

**Resident** Christine Duff

**Advisors** Benedetti, Amanda (Primary); Reissig, Jim; Zimmerman, Jake; Nancy A. Myers, PhD

Evaluation of osteoporosis treatment after hip fracture

**Resident** Katherine Heimann

**Advisors** Dreiling, Jodi (Primary); McMullen, Nicole; Nancy A. Myers, PhD

Therapeutic troughs in individualized versus standard dosing of vancomycin

**Resident** Tamika White

**Advisors** Mistry, Bhavin (Primary); Berry, Nancy; Gallegos, Patrick;

Utilization of a reminder mailing to improve blood glucose log reporting in an outpatient diabetes clinic

**Resident** John Moorman

**Advisors** Frazee, Larry (Primary); Boros, Melanie; Diane L. Chomo, MD; Nancy A. Myers, PhD

**Publication** *Moorman JM, Frazee LA, Dillon ML, Chomo DL, Myers NA. Utilization of a reminder mailing to improve blood glucose log reporting in an outpatient diabetes clinic. Am J Ther 2012;19:255-60.*

Academic Year: 2008-2009

Clinical Impact of Temporary Therapy Interruptions on Anticoagulation Control in Patients Treated with Warfarin

**Resident** Melanie Dillon

**Advisors** Rybarczyk, Amy (Primary); Gallegos, Patrick; Zimmerman, Jake; Nancy A. Myers, PhD

**Publication** *Boros ML, Rybarczyk AM, Gallegos PJ, Zimmerman JP. Clinical impact of temporary therapy interruptions on anticoagulation control in patients treated with warfarin. Am J Ther 2013;20(3):267-74*

Cleveland Clinic Akron General  
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**Comparison of intramuscular antipsychotic medication: impact on length of stay and cost**

**Resident** Jonathan Leung

**Advisors** Benedetti, Amanda (Primary); Frazee, Larry; Nancy A. Myers, PhD

**Publication** *Leung JG, Benedetti AM, Frazee LA, Myers N. Comparison of short-acting intramuscular antipsychotic medication: impact on length of stay and cost. Am J Ther 2011;18:300-4.*

**Academic Year: 2007-2008**

**Establishing a potency ratio when converting to and from oral methadone in chronic pain patients**

**Resident** Jacob Zimmerman

**Advisors** Reissig, Jim (Primary); Benedetti, Amanda;

**Rapid Infusion of Monoclonal Antibodies vs. Standard Infusions<sup>2</sup> and the Incidence of Acute Infusion Reactions**

**Resident** Nicole Moore

**Advisors** Fisher-Lowe, Jennifer (Primary); Frazee, Larry;

**Academic Year: 2006-2007**

**Impact of Obesity on Clinically Significant Heparin-Induced Bleeds**

**Resident** Brittany Henak

**Advisors** Dreiling, Jodi (Primary); Rybarczyk, Amy;

**Impact of Empiric Treatment Guidelines on Antibiotic Prescribing in Adult Oncology Patients with Febrile Neutropenia.**

**Resident** Amanda Zelek

**Advisors** Fisher-Lowe, Jennifer (Primary); Reissig, Jim;

**Academic Year: 2005-2006**

**Evaluation of the "1500 rule" and "1800 rule" for estimating supplemental insulin doses in hospitalized patients**

**Resident** Michael Bradley

**Advisors** Rybarczyk, Amy (Primary); Frazee, Larry; Claire Bourguet, PhD

**Evaluation of Adrenal Function in Critically Ill Patients After a Single Bolus of Etomidate**

**Resident** Brian Emerick

**Advisors** ;

**Academic Year: 2004-2005**

**Insulin Treatment Strategies in Hospitalized, Medically Ill Type 2 Diabetics – A Retrospective Descriptive Study**

**Resident** Amanda Irick

**Advisors** Rybarczyk, Amy (Primary); Calhoun, Robert; Frazee, Larry;

**Academic Year: 2003-2004**

**Argatroban Dosing in Critically Ill Patients**

**Resident** Benjamin Lukens

**Advisors** Berry, Nancy (Primary); Frazee, Larry; Rybarczyk, Amy; Ann Salvator

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Academic Year: 2002-2003

Screening for nephropathy and antiangiotensin use among diabetic patients in an academic community medical center.

**Resident** Seyhooon Samandari-Gupta

**Advisors** Frazee, Larry (Primary); Tom Tanphaichitr, MD; Eugene Pfister, MD; Claire Bourget, PhD.

**Publication** *Frazee LA, Samandari S, Tanphaichitr N, Bourget CC, Pfister EW. Screening for nephropathy and antiangiotensin use among diabetic patients in an academic community medical center. Am J Ther 2006;13:18-23*

Academic Year: 2001-2002

Retrospective comparison of nebulized levalbuterol and albuterol for adverse events in patient with acute airflow obstruction.

**Resident** Vanessa Scott

**Advisors** Frazee, Larry (Primary);

**Publication** *Scott V, Frazee LA. Retrospective comparison of nebulized levalbuterol and albuterol for adverse events in patient with acute airflow obstruction. Am J Ther 2003;10:341-7.*

Academic Year: 2000-2001

A Randomized, Double-Blind Comparison Study of Magnesium Sulfate and Normal Saline as a Vehicle for Nebulized Albuterol in Acute Asthma

**Resident** Amy Rybarczyk

**Advisors** Frazee, Larry (Primary);

A Prospective Double-Blind Randomized Placebo Controlled Trial to Evaluate Glutamine for the Treatment of Taxane Induced Peripheral Neuropathy

**Resident** James Reissig

**Advisors** Nesbit, Suzanne (Primary); Rule, Ann;