

**THGR PHARMACY RESIDENCY
RESIDENT RESEARCH PROJECT INVENTORY^Ω**

		Resident	Project Title	Presentation/Publication
2 0 2 2 - 2 0 2 3	P G Y 2 - ID	Abigail Geyer, PharmD	Evaluate outcomes of high-dose oral beta-lactam therapy for Enterobacterales bacteremia due to a urinary tract infection compared to a fluoroquinolone or trimethoprim/sulfamethoxazole	<ul style="list-style-type: none"> • Geyer AC, VanLangen KM, Jameson AP, Dumkow LE. Outcomes of high-dose oral beta-lactam definitive therapy compared to fluoroquinolone or trimethoprim-sulfamethoxazole oral therapy for bacteremia secondary to a urinary tract infection. <i>Antimicrob Steward Healthc Epidemiol.</i> 2023;3(1)e148. • ID Week 2023 – Boston, MA <p>Additional publications:</p> <ul style="list-style-type: none"> • Strasel M, VanLangen KM, Benzer J, Geyer A, Jameson AP, Dumkow L. HPV vaccination rates in 9- and 10-year-olds following a pharmacist-led intervention. <i>J Am Pharm Assoc (2003);</i> 2023; S1544-3191(23)00263-7. • Dumkow L, Geyer A, Worden L. Emergency department antimicrobial stewardship: a critical area of focus for health systems. <i>Contagion.</i> 2023; 8(3): 20-22. • Dumkow L, Geyer A, Davidson L. Antimicrobial Stewardship at Transitions of Care. <i>Infect Dis Clin N Am.</i> 2023. https://doi.org/10.1016/j.idc.2023.06.007 • Geyer AC, Draper HM, Wolf LM, Buss PM, Dumkow LE. Feasibility evaluation of expanding a collaborative practice agreement to discontinue antibiotics post-Emergency Department and Urgent Care visit. <i>Am J Health Syst Pharm.</i> March 2023; <i>e-pub ahead of print</i>
	P G Y 1	Molly Crosley, PharmD	Characterization of strategies utilized to develop pgy-1 pharmacy resident final projects	<ul style="list-style-type: none"> • Crosley M, VanLangen K, Belfer J, Dumkow L. Perceptions of PGY1 pharmacy resident research, final projects, and associated publication outcomes. <i>Accepted August 15, 2023 at AJHP.</i>
		Cassandra Falk, PharmD	Impact of Multiplex Respiratory PCR on Antimicrobial Stewardship and Infection Control in the Emergency Department and Inpatient Setting	<ul style="list-style-type: none"> • Falk CL, Dumkow LE, Geyer AC, Schmidt KJ, Egwuatu NE, Langholz JM, Jameson AJ. Evaluation of Appropriate Transmission-Based Precautions for Non-SARS-CoV-2 Respiratory Viruses. <i>Accepted for publication in Antimicrob Steward Health Epidemiol September 2023.</i> • ID Week 2023 – Boston, MA
		Destiny Hughson, PharmD	Impact of anticoagulation reversal with 4F-PCC for acute gastrointestinal bleeding in patients on enteral anticoagulation	
		Aidan Yetsko, PharmD	Two time versus four times daily cephalexin dosing for the treatment of uncomplicated urinary tract infections in females	<ul style="list-style-type: none"> • Yetsko, A., Draper HM, Eid K, Jameson AP, Dumkow, LE. Two time versus four times daily cephalexin dosing for the treatment of uncomplicated urinary tract infections in females. <i>Open Forum Infect Dis.</i> 2023:ofad430. • ID Week 2023 – Boston, MA

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2022-2023	PGY 2 ID	Lacy Worden, PharmD, BCIDP	Implementation of antimicrobial stewardship weekend coverage within a community hospital with a PGY2 infectious disease pharmacy resident	<ul style="list-style-type: none"> Worden LJ, Tomlin R, Egwuatu NE, Dumkow LE. Implementation of antimicrobial stewardship weekend coverage within a community hospital with a PGY-2 infectious diseases pharmacy resident. J Am Pharm Assoc (2003). 2022; ID Week 2022 – Washington, DC <p>Additional presentation:</p> <ul style="list-style-type: none"> Evaluation of asymptomatic bacteriuria and urinary tract infections in renal transplant recipients. MAD-ID 2022 – Orlando, FL
		Haley Boerckel, PharmD	Impact of altered mental status on antibiotic prescribing in patients with pyuria	<ul style="list-style-type: none"> ID Week 2023 – Boston, MA
		Balsam Elajouz, PharmD	3-day ceftriaxone versus longer durations of therapy for inpatient treatment of uncomplicated UTI	<ul style="list-style-type: none"> Elajouz B, Dumkow LE, Worden L, VanLangen KM, Jameson AP. 3-day ceftriaxone versus longer durations of therapy for inpatient treatment of uncomplicated UTI. Anitmicrob Steward Healthc Epidemiol 2022;2(1):e171. ID Week 2022 – Washington, DC
2022-2023	PGY 1	Rachel Webster, PharmD	Evaluation of basal-bolus versus sliding scale insulin therapy on glucose variability in nondiabetic patients in the intensive care unit	<ul style="list-style-type: none"> Webster R, Belfer J, Schmidt K. Evaluation of basal-bolus versus sliding scale insulin therapy on glucose variability in critically ill patients without pre-existing diabetes. Manuscript accepted on August 9, 2023 at Annals of Pharmacotherapy.
		Kamah Ellena, PharmD, BCCCP	The role of midodrine in vasopressor wean in patients with sepsis	<ul style="list-style-type: none"> SCCM Congress 2022, Research Snapshot Presentation
		Brennan Foreman, PharmD, MBA	Impact of order sentence implementation on outpatient antimicrobial prescribing for UTI and SSTI	<ul style="list-style-type: none"> Foreman B, Westerhof L, Johnson K, Benzer J, Egwuatu N, Dumkow L. Impact of Order Sentence Implementation on Outpatient Antibiotic Prescribing for Urinary Tract Infection and Skin and Soft Tissue Infection. J Am Coll Clin Pharm. 2022;5(3):283-90. ACCP Annual Meeting 2021, virtual
2022-2023	PGY 1	Jessica (Goldsworthy) Potter, PharmD, BCACP	Impact of a pharmacist-led pneumococcal vaccination program in an ambulatory care setting	<ul style="list-style-type: none"> Goldsworthy J, Benzer J, Salvati L, Jenkins T, C Tomlin, Jameson A, Dumkow L. Impact of a pharmacist-led pneumococcal vaccination outreach program in a primary care setting. JACCP. 2022;5(3):302-309. ACCP Annual Meeting 2021, virtual

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2020-2021	P G Y 1	Lacy Worden, PharmD, BCIDP	Comparison of antipseudomonal and de-escalated gram-negative antimicrobial coverage for community onset intra-abdominal infections	<ul style="list-style-type: none"> • Worden L, Dumkow L, VanLangen K, Beuschel T, Jameson A. Antipseudomonal versus narrow-spectrum agents for the treatment of community-onset intra-abdominal infections. <i>Open Forum Infect Dis.</i> 2021;8(11):ofab514. • SIDP 2021, Platform Presentation • ID Week 2021, Virtual Conference <p>Additional publication:</p> <ul style="list-style-type: none"> • Dumkow L, Worden L, Rao S. Syndromic diagnostic testing: a new way to approach patient care in the treatment of infectious disease. <i>J Antimicrob Chemother.</i> 2021;76(Suppl 3):iii4-iii11. <p>Additional presentation:</p> <ul style="list-style-type: none"> • Evaluation of antibiotic prophylaxis using a pharmacist-led surgical care improvement process in patients with documented beta-lactam allergy. MAD-ID 2021 - Virtual Conference
2019-2020	P G Y 1	Patricia (Choi) Lee, PharmD, BCACP	Impact of pharmacist-led selective audit & feedback on outpatient antibiotic prescribing for UTIs and SSTIs	<ul style="list-style-type: none"> • Choi P, Benzer J, J Coon, Dumkow L. Impact of pharmacist-led selective audit & feedback on outpatient antibiotic prescribing for UTI and SSTI. <i>Am J Health System Pharm.</i> 2021;78(supplement_2):S62-S69. doi: 10.1093/ajhp/zxab110 • ID Week 2020, Virtual Conference
		Lauren Clark, PharmD, BCPS	Impact of procalcitonin on the treatment of community-acquired pneumonia at a community teaching hospital	<ul style="list-style-type: none"> • Clark L, Beuschel T, Buss P, Dumkow L, Jameson A. Comparison of procalcitonin testing to a targeted audit-and-feedback strategy on prescribed durations of therapy for community-acquired pneumonia. <i>Diagn Microbiol Infect Dis.</i> 2021;99(1):115202. doi: 10.1016/j.diagmicrobio.2020.115202 • ID Week 2020, Virtual Conference
		Kaitlyn (Johnson) Fett, PharmD, BCACP	Comparison of prescribing practices between virtual visits and office visits for urinary tract infections within primary care practices	<ul style="list-style-type: none"> • Johnson K, Dumkow L, Salvati L, Johnson K, Yee M, Egwuatu N. Comparison of diagnosis and prescribing practices between virtual visits and office visits for adults diagnosed with uncomplicated urinary tract infection within a primary care network. <i>Infect Control Hosp Epidemiol.</i> 2021;42(5):586-591. doi: 10.1017/ice.2020.1255. • ID Week 2020, Virtual Conference
		Niki Krancevich, PharmD, BCPS	Association between intensive care opioid use and long-term opioid use	<ul style="list-style-type: none"> • Krancevich N, Belfer JJ, Draper H, Schmidt K. Impact of Opioid Administration in the Intensive Care Unit and Subsequent Use in Opioid-Naïve Patients. <i>Ann Pharmacother.</i> 2022;56(1):52-59. doi: 10.1177/10600280211016856. • ACCP Annual Meeting 2020, virtual <ul style="list-style-type: none"> ○ Best Resident/Fellow Poster Finalist

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2018-2019	PGY 1	Tricia Dyckman, PharmD, BCPS	Evaluating patient outcomes with thymoglobulin vs. alemtuzumab for renal transplant induction	<ul style="list-style-type: none"> American Transplant Congress 2020 (virtual due to COVID)
		Eric Fink, PharmD, BCPS	Impact of a pharmacist-driven stress ulcer prophylaxis discontinuation policy	
		Kristen (Johnson) Eid, PharmD, BCPS	Evaluating antibiotic prescribing via virtual visits vs. in-office visits for upper respiratory tract infections	<ul style="list-style-type: none"> Johnson K, Dumkow L, Burns K, Yee M, Egwuatu N. Comparison of diagnosis and prescribing practices between virtual visits and office visits for adults diagnosed with sinusitis within a primary care network. <i>Open Forum Infect Dis.</i> 2019;6(9):ofz393. ID Week 2019, Washington, DC SIDP annual meeting 2019, Washington DC
		Selena Pham, PharmD	Impact of a pharmacist-driven MRSA nasal PCR policy on vancomycin use for pneumonia	<ul style="list-style-type: none"> Pham S, Sturm A, Jacoby J, Egwuatu N, Dumkow, L. Impact of a pharmacist-driven MRSA nasal PCR protocol on pneumonia therapy. <i>Hospital Pharmacy.</i> 2021;56(4):221-227. ID Week 2019, Washington, DC
2017-2018	PGY 1	Paige (Bukowski) Buss, PharmD, BCPS	Implementation of rapid diagnostic testing with stewardship education for gram-positive blood cultures in a community teach hospital	<ul style="list-style-type: none"> Bukowski PM, Jacoby JS, Jameson AP, Dumkow LE. Implementation of rapid diagnostic testing without active stewardship team notification for gram-positive blood cultures in a community teaching hospital. <i>Antimicrob Agents Chemother.</i> 2018;62(11):e01334-18. ID Week 2018, San Francisco, CA
		Michael Eischens, PharmD	Impact of pharmacist-driven antimicrobial stewardship on the rate of challenging penicillin allergies in the emergency department	<ul style="list-style-type: none"> American College of Emergency Physicians, 2018 Annual Meeting, San Diego CA
		Lauren Fay, PharmD, BCCCP	The urgent need for urgent care antimicrobial stewardship: Evaluating prescribing appropriateness and patient outcomes associated with a pharmacist-led culture follow-up program [§]	<ul style="list-style-type: none"> Fay LN, Wolf LM, Brandt KL, DeYoung GR, Anderson AM, Egwuatu NE, Dumkow LE. Pharmacist-led antimicrobial stewardship program in an urgent care setting. <i>Am J Health Syst Pharm.</i> 2019;76(3):175-181. ID Week 2018, San Francisco, CA ASHP Midyear 2018, Anaheim, CA
2016-2017	PGY 1	Thomas Beuschel, PharmD, BCPS	Antimicrobial Stewardship Program structure and its impact on therapy in community-acquired pneumonia	<ul style="list-style-type: none"> ECCMID 2018, Madrid, Spain <p>Additional research:</p> <ul style="list-style-type: none"> Dumkow LE, Beuschel TS, Brandt KL. Expanding antimicrobial stewardship to urgent care centers through a pharmacist-led culture follow-up program. <i>Infect Dis Ther.</i> 2017;87(2):175-179
		Benjamin Kulwicki, PharmD, BCPS	Impact of an Emergency Medicine Pharmacist on appropriate empiric antibiotic prescribing	<ul style="list-style-type: none"> Kulwicki BD, Brandt KL, Wolf LM, Weise AJ, Dumkow LE. Impact of an emergency medicine pharmacist on empiric antibiotic prescribing for pneumonia and intra-abdominal infections. <i>Am J Emerg Med.</i> 2019;37(5):839-844. doi: 10.1016/j.ajem.2018.07.052 ID Week 2017, San Diego, CA



Trinity Health

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2015-2016	PGY 1	Robert Granett, PharmD, BCPS	Impact of pharmacist-led antimicrobial stewardship on antibiotic prescribing for pneumonia in the intensive care unit	<ul style="list-style-type: none"> ID Week 2016, New Orleans, LA
		Rachel (Meyer) White, PharmD, BCPS	Impact of pharmacist led antimicrobial stewardship on the treatment of urinary tract infections and pyelonephritis in the Emergency Department	<ul style="list-style-type: none"> ID Week 2016, New Orleans, LA MAD-ID 2017, Orlando, FL
2014-2015	PGY 1	Joshua Jacoby, PharmD, BCPS	Emergency medicine pharmacist impact on door-to-needle time in patients with acute ischemic stroke	<ul style="list-style-type: none"> Jacoby J, Draper HM, Dumkow LE, Farooq MU, DeYoung GR, Brandt KL. Emergency medicine pharmacist impact on door-to-needle time in patients with acute ischemic stroke. The Neurohospitalist. 2018;8(2):60-65. International Stroke Conference, 2016, Los Angeles, CA
		Kaitlyn Rivard, PharmD, BCIDP	Impact of point of care screening for chlamydia and gonorrhea on antimicrobial stewardship in the emergency department§	<ul style="list-style-type: none"> Rivard KR, Dumkow LE, Draper HM, Brandt KL, Whalen D, Egwuatu NE. Impact of rapid diagnostic testing for chlamydia and gonorrhea on appropriate antimicrobial utilization in the emergency department. Diagn Microbiol Infect Dis. 2017;87(2):175-179. ID Week 2015, San Diego, CA ASHP Midyear 2015, New Orleans, LA
2013-2014	PGY 1	Rachel Rehor, PharmD, BCPS	Vancomycin dosing in obesity: should we still be using actual body weight?	<ul style="list-style-type: none"> 2014 GRMEP Research Meeting, Grand Rapids, MI
		Kayla (Uganski) Burns, PharmD, BCPS, BCACP	Do reflex urine cultures contribute to unnecessary antibiotic use in a community teaching hospital? ‡	<ul style="list-style-type: none"> ID Week 2014, Philadelphia, PA 2014 GRMEP Research Meeting, Grand Rapids, MI
2011-2013	PGY 1	Jessica Benzer, PharmD, BCACP	Preventing inappropriate pneumococcal vaccination in the inpatient setting: effectiveness of a process improvement initiative	<ul style="list-style-type: none"> 2013 GRMEP Research Meeting, Grand Rapids, MI
		Ted Riley, PharmD, BCPS	Incidence of nephrotoxicity in patients treated with intravenous vancomycin	<ul style="list-style-type: none"> 2013 GRMEP Research Meeting, Grand Rapids, MI‡



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2011-2012	PGY 1	Bethany Cross, PharmD, BCACP, BCPP	High-dose oral medroxyprogesterone for inappropriate hypersexuality in elderly men with dementia: a case series	<ul style="list-style-type: none"> • Cross BS, DeYoung GR, Furmaga KM. High-dose oral medroxyprogesterone for inappropriate hypersexuality in elderly men with dementia: a case series. <i>Ann Pharmacother.</i> 2013;47(1):e1.
		Julie (Lewandowski) Belfer, PharmD, BCCCP	Impact on compliance with testing and results of using tuberculin skin test compared to QUANTIFERON®-TB gold in-tube assay in HIV-positive individuals	<ul style="list-style-type: none"> • ID Week 2012, San Francisco, CA • 2012 GRMEP Research Day Meeting, Grand Rapids, MI‡
2010-2011	PGY 1	Kyle Baker, PharmD	Characteristics of successful antipsychotic dose reduction in nursing home patients with dementia-related aggression or agitation	<ul style="list-style-type: none"> • 2011 GRMEP Research Meeting, Grand Rapids, MI
		Jessica Ninke, PharmD	Valproate-induced hyperammonemia: characterization of predisposing factors in an adult psychiatric population	<ul style="list-style-type: none"> • 2011 GRMEP Research Meeting, Grand Rapids, MI‡ • 2011 College of Neurologic and Psychiatric Pharmacists Annual Meeting, Phoenix, Arizona
2009-2010	PGY 1	Josh DeMott, PharmD, BCCCP, BCPS	Pain management following total knee arthroplasty: scheduled versus “as-needed” pharmacotherapy	<ul style="list-style-type: none"> • 2010 GRMEP Research Meeting, Grand Rapids, MI‡
		Andrew Kline, MD, PharmD	Use of acetaminophen in hospitalized patients with concomitant alcohol abuse in a CPOE setting	<ul style="list-style-type: none"> • 2010 GRMEP Research Meeting, Grand Rapids, MI
2008-2009	PGY 1	Stephanie Chick, PharmD	Analysis of the effect of tenofovir on renal function in patients receiving protease inhibitors compared with patients receiving non-nucleoside reverse transcriptase inhibitors	<ul style="list-style-type: none"> • 2009 GRMEP Research Meeting, Grand Rapids, MI
		Dusten Rose, PharmD, BCIDP, AQID	Adherence to hepatitis B pharmacotherapy guidelines and associated hepatotoxicity in HIV coinfecting patients	<ul style="list-style-type: none"> • 2009 GRMEP Research Meeting, Grand Rapids, MI‡



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2007-2008	PGY 1	Kali (Schulz) VanLangen, PharmD, BCPS	Characterization of polypharmacy in an inpatient bipolar population	<ul style="list-style-type: none"> 2008 ACCP Annual Meeting, Louisville, Kentucky
		Brenda Dobson, PharmD, BCPS	Development and implementation of an anticoagulation management service in a health-system affiliated community pharmacy setting	
2006-2007	PGY 1	Melanie Crain, PharmD	Pharmacist interventions to improve adherence among patients with HIV/AIDS starting antiretroviral therapy	
		Beth Newton, PharmD	Inpatient management of supratherapeutic international normalized ratios: an assessment of adherence to the 2004 American College of Chest Physicians guidelines	<ul style="list-style-type: none"> 2007 ACCP Annual Meeting, Denver, Colorado
2005-2006	PGY 1	Heather Draper, PharmD, BCPS, BCEMP	Adherence with advance cardiac life support guidelines during in-hospital cardiac arrest	<ul style="list-style-type: none"> Draper HM, Eppert JA. Association of pharmacist presence on compliance with advanced cardiac life support. <i>Ann Pharmacother.</i> 2008;42(4):469-74. 2007 ACCP Spring Practice and Research Forum, Memphis, Tennessee
		Sarah Paulson, PharmD, BCPS	Adherence to the 2004 American College of Chest Physicians consensus guidelines for thromboprophylaxis in orthopedic surgery patients	

‡ Grand Rapids Medical Education Partners Research Day- Best Pharmacy Research Poster (due to conflicts with GLPRC, ceased participation in 2014)

§ Awarded American Society of Health-System Pharmacists Foundation Pharmacy Resident Practice-Based Research Grant (one of six awarded annually across all residencies in the US)

Ω Most projects are submitted and accepted for presentation at national Medical (e.g., MAD-ID, American Society of Neurology, IDWeek) or Pharmacy (e.g., ACCP, CPNP, ASHP) conferences and/or publication in the 12 months after a resident graduates and are now routinely published in the 18 months following their completion