

## *Curriculum Vitae*

Michael T. Kenes, Pharm.D., FCCM, BCPS, BCCCP

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### **OFFICE ADDRESS:**

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Ann Arbor, MI 48109  
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### **EDUCATION**

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|-------------|---|
| 2009 – 2013 | Doctor of Pharmacy<br>University of Illinois Chicago<br>Chicago, IL   |
| 2013 – 2014 | PGY-1 Pharmacy Practice Residency<br>Cleveland Clinic<br>Cleveland, OH<br>Residency Director: Katie Greenlee, Pharm.D., BCPS (AQ-Cardiology)                      |
| 2014 – 2015 | PGY-2 Critical Care Pharmacy Residency<br>Vanderbilt University Medical Center<br>Nashville, TN<br>Residency Director: Susan Hamblin, Pharm.D., FCCM, BCPS, BCCCP |

### **LICENSURE**

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| 2013 – Present | Ohio Licensed Pharmacist, License Number RPH.03232773-2 |
| 2020 – Present | Michigan Licensed Pharmacist, License Number 5302412351 |

### **APPOINTMENTS**

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|----------------|---|
| 2020 – Present | Clinical Assistant Professor<br>Department of Clinical Pharmacy, College of Pharmacy<br>University of Michigan, Ann Arbor, MI |
| 2020 – Present | Clinical Pharmacy Specialist, Medical Intensive Care Unit (ICU)<br>Michigan Medicine, Ann Arbor, MI                           |
| 2020 – Present | Clinical Pharmacy Researcher<br>Dr. Max Harry Weil Institute for Critical Care Research and Innovation                        |
| 2015 – 2020    | Clinical Pharmacy Specialist, Medical ICU<br>Wake Forest Baptist Health, Winston Salem, NC                                    |
| 2015 – 2020    | ICU Recovery Clinic Pharmacist<br>Wake Forest Baptist Health, Winston Salem, NC   |

2016 – 2020	Institutional Review Board (IRB) Voting Member (10% effort) Wake Forest Baptist Health, Winston Salem, NC
2016 – 2020	PGY2 Critical Care Pharmacy Residency Program Coordinator Wake Forest Baptist Health, Winston Salem, NC
2015 – 2020	Adjunct Clinical Faculty College of Pharmacy, Wingate University, Winston Salem, NC
2015 – 2020	Adjunct Clinical Faculty College of Pharmacy, Campbell University, Winston Salem, NC
2015 – 2017	Associate Instructor, Fundamentals of Critical Care Support Society of Critical Care Medicine
2014 – 2015	Adjunct Clinical Assistant Professor College of Pharmacy, Belmont University, Nashville, TN

## **SPECIALTY AND SUBSPECIALTY CERTIFICATIONS**

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2015 – Present	Board Certified Pharmacotherapy Specialist (BCPS)
2017 – Present	Board Certified Critical Care Pharmacy Specialist (BCCCP)

## **ELECTIVE CERTIFICATIONS**

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2014 – Present	Advanced Cardiac Life Support (ACLS), American Heart Society
2014	Fundamentals of Critical Care Support, Society of Critical Care Medicine
2014	Advanced Trauma Support (ATLS), American College of Surgeons, Audited
2014	Resident ICU Course, Society of Critical Care Medicine

## **HONORS**

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2023	Fellow, American College of Critical Care Medicine
2023	Gold Snapshot Award, Society of Critical Care
2023	Scholarship Award, Research Section of the Society of Critical Care Medicine
2022	<i>Phi Delta Chi</i> Faculty Teaching Appreciation Award, P3 Class of 2023, College of Pharmacy, University of Michigan
2021	<i>Phi Delta Chi</i> Faculty Teaching Appreciation Award, P3 Class of 2022, College of Pharmacy, University of Michigan
2019	Star Research Award, Society of Critical Care Medicine
2018	Residency Preceptor of the Year, Pharmacy Department, Wake Forest Baptist Health

2016	Presidential Citation, Society of Critical Care Medicine
2009 – 2013	Chancellor’s Student Service and Leadership Award, University of Illinois Chicago
2012	Excellence in Public Health Pharmacy Practice Award, United States Public Health Service
2011	Citation Award, Commissioned Corps, United States Public Health Service
2011	<i>Phi Lambda Sigma</i> Pharmacy Leadership Society – Alpha Iota Chapter
2007	Eagle Scout Award, Boy Scouts of America

## Service

### CLINICAL SERVICES

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#### New Clinical Services Established

2021	<i>Michigan Medicine</i> Assisted with expansion of Medical ICU from 20 beds to maximum of 25-30 with the addition of 1-2 nurse practitioner/physician assistants. Provided significant medication education to providers and nurses without prior ICU experience.
2020	<i>Michigan Medicine</i> Primary clinical pharmacist for newly opened Regional Infectious Containment Unit (RICU, or COVID ICU), which expanded to 50 ICU beds, staffed by critical care and anesthesia providers from multiple backgrounds. Assisted with medication shortage mitigation, operations and medication use system optimization, and development of clinical protocols and education.
2017	<i>Wake Forest Baptist Health</i> Established clinical pharmacy services for new 10 bed Medical Oncology ICU. Assisted with training of medical ICU nurse practitioners/physician assistants for new patient population. Collaborated with interdisciplinary groups to create clinical protocols. Optimized medication use systems for patient population in new physical ICU space.

### COMMITTEE ACTIVITIES

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#### University

##### *College of Pharmacy, University of Michigan*

2023 – Present	Admissions Committee
2021 – Present	Therapeutics Subcommittee, Curriculum and Assessment Committee
2020 – 2023	Faculty Development Committee

#### Hospital

##### *Michigan Medicine*

2021 – Present	Sepsis Metrics Compliance (SEP-1) Committee
2021 – Present	Post-Arrest Management Committee
2020 – 2021	Sepsis Transitions of Care Committee
2020 – Present	Critical Care Steering Committee

2020 – Present Critical Care Medicine Unit Interdisciplinary Committee  
2020 – Present Interdisciplinary Delirium Committee  
2020 Regional Infectious Containment Unit Interdisciplinary Committee

*Wake Forest Baptist Health*

2018 – 2019 Institutional Sepsis Prevention and Treatment Committee  
2018 – 2019 Pharmacy Patient Care Needs Assessment Steering Committee  
2016 – 2019 Pharmacy-to-Dose Medication Committee  
2016 – 2019 Multidisciplinary Medical ICU Research Committee  
2015 – 2019 Pharmacy Research Committee  
2018 – 2019 Chair  
2015 – 2019 PGY-2 Critical Care Residency Advisory Committee  
2015 – 2019 Code Response Education Workshop Committee  
2015 – 2019 Anticoagulation Management Pharmacy and Therapeutics Committee  
2015 – 2019 Anticoagulant Reversal Sub-Committee

*Vanderbilt University Medical Center*

2014 – 2015 Institutional Critical Care Committee  
2014 – 2015 Surgical Critical Care Quality Improvement Committee

## CLINICAL PERFORMANCE IMPROVEMENT PROJECTS

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### Medication Use Evaluations

*Michigan Medicine*

2024 Antibiotic Dose Adjustments during Initiation and Discontinuation of CRRT (student advisor)  
2022 Continuation of Medications for New-Onset Atrial Fibrillation in ICU Survivors (student advisor)  
2021 New Requirement of Insulin Use Post-Discharge in Critically Ill COVID-19 Survivors (student advisor)  
2021 Compliance with Medication Treatment Recommendations for Decompensated Cirrhotic Patients (student advisor)  
2020 Cisatracurium Dosing Requirements in COVID-19 Compared to non-COVID-19 Patients (resident advisor)

*Wake Forest Baptist Health*

2018 Vasopressin Utilization in the Medical ICU (resident advisor)  
2018 Obtainment of Respiratory Cultures in Patients Treated for Pneumonia (resident advisor)  
2017 Diagnosis and Treatment of Heparin-Induced Thrombocytopenia (student advisor)  
2017 Dexamethasone Use in Bacterial Meningitis (student advisor)

*Vanderbilt University Medical Center*

2014 Effect of Scheduled Acetaminophen on Intravenous Opioid Use in Trauma Patients

### Protocol and Orderset Development

*Michigan Medicine*

2024 N-Acetylcysteine (NAC) Protocol for Acetaminophen Overdose  
2023 Phenobarbital for Alcohol Withdrawal in the Medical ICU  
2021 Corticosteroids for Septic Shock  
2021 ICU Electrolyte Replacement Protocol Update  
2020 Care of the Critically Ill COVID-19 Patient Treatment Protocol  
2020 Albumin Treatment Protocol

*Wake Forest Baptist Health*

2018 Pharmacy Department Residency Research Protocol  
2018 Peripheral Vasopressor Administration Protocol  
2017 ICU Pain, Agitation and Delirium Orderset

- 2017 ICU Deep Sedation and Paralysis Orderset
- 2017 Calcium Channel Blocker Overdose Orderset
- 2017 Diabetic Ketoacidosis Treatment Orderset
- 2017 Heparin-Induced Thrombocytopenia Orderset and Guideline
- 2016 Citrate Anticoagulation for Renal Replacement Therapies Guideline and Protocol
- 2016 Anticoagulant Reversal Orderset and Guideline

*Vanderbilt University Medical Center*

- 2015 Burn ICU High Dose Vitamin C for Resuscitation Protocol
- 2015 Surgical ICU Insulin Transition Protocol

**Drug Monograph Preparation and Review**

*Michigan Medicine*

- 2023 Terlipressin

*Wake Forest Baptist Health*

- 2019 Revedfenacin
- 2017 Clevidipine
- 2017 Andexanet Alpha
- 2016 Angiotensin II

*Vanderbilt University Medical Center*

- 2015 Peramivir

*Cleveland Clinic*

- 2014 Melatonin

**PROFESSIONAL SOCIETY COMMITTEES**

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2019 – Present	<i>Board of Pharmacy Specialties, Critical Care Specialty</i> 2024 – 2026 Appointed Specialty Council Member 2019 – 2022 Member, Role Delineation Study 2019 Member, Standard Setting Committee
2014 – Present	<i>Society of Critical Care Medicine,</i> 2014 – Present Clinical Pharmacy and Pharmacology Section 2016 – Present Research Section 2018 – 2021 Member, Simulation Education Subcommittee
2013 – Present	<i>American College of Clinical Pharmacy,</i> 2013 – Present Critical Care Practice Related Network 2020 – Present Member, Scholarship Review Committee 2019 – Present Member, Recognition Committee 2023 – 2024 Past-Chair, Recognition Committee 2022 – 2023 Chair, Recognition Committee 2021 – 2022 Vice-Chair, Recognition Committee 2018 – 2019 Member, Standard Setting Committee, Critical Care Self-Assessment Program
2018 – 2020	THRIVE Initiative (Optimizing Post-ICU Care)
2013 – 2016	American Society of Health-System Pharmacists

**PROFESSIONAL SERVICE**

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- 2020 – 2022 COVID-19 Colleague Connect (24/7 line for COVID-19 ICU care in state of Michigan)  
Pharmacist Team Lead, Funded by Blue Cross Blue Shield – Michigan
- 2019 Item writer, Board Certified Critical Care Pharmacist Exam, Board of Pharmacy Specialties
- 2015 – 2019 Item writer, North American Pharmacist Licensure Examination (NAPLEX)  
National Association of Boards of Pharmacy

**EDITORIAL AND REVIEW ACTIVITIES**

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**PERIODICALS**

American Journal of Health-System Pharmacy

Anesthesia & Analgesia

Critical Care Medicine

Hospital Pharmacy

Journal of Critical Care

Journal of Hospital Medicine

Journal of Pharmacy Practice

Pharmacotherapy

**PROFESSIONAL ORGANIZATION MEETINGS**

- 2015 – Present Annual Congress Abstract Reviewer, Society of Critical Care Medicine

**PROFESSIONAL INVITATIONS**

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**INVITED PLATFORM AND CONTINUING EDUCATION PRESENTATIONS**

*International/National*

- November 2023 Phenobarbital for Alcohol Withdrawal in the Intensive Care Unit  
35th Annual CME Update in Pulmonary & Critical Care Medicine, University of Michigan  
Ann Arbor, MI
- November 2022 Optimizing Sedation in the Intensive Care Unit  
34th Annual CME Update in Pulmonary & Critical Care Medicine, University of Michigan  
Plymouth, MI
- August 2022 Reducing Delirium through Transitions of Care in the Geriatric Critically Ill  
Central Nervous System, Critical Care, and Geriatric Practice Related Network  
American College of Clinical Pharmacy

Virtual

- February 2022 The METRICS Framework in Critical Care Simulation as a Guide to Career Advancement  
51st Critical Care Conference, Society of Critical Care Medicine  
Virtual
- November 2020 Role of the Pharmacist in ICU Follow-up Clinics  
9th Annual Johns Hopkins Critical Care Rehabilitation Conference  
Baltimore, MD
- March 2015 “Life-Threatening Infections – Diagnosis and Antimicrobial Therapy Selection”  
Fundamentals of Critical Care Support, Society of Critical Care Medicine  
Nashville, TN
- March 2015 “Special Considerations in Critically Ill Patients”  
Fundamentals of Critical Care Support, Society of Critical Care Medicine  
Nashville, TN
- March 2013 Post-Market Adverse Event Reporting at the Food and Drug Administration  
Office of the Commissioner and FDA Center Directors  
Silver Spring, MD
- January 2013 Correlation between Ketamine and Posttraumatic Stress Disorder in Burned Service Members  
American Burn Association: Pharmacy Interest Group  
Virtual

Local

- April 2023 Sedation in the Medical Intensive Care Unit  
Pulmonary Grand Rounds, College of Medicine, University of Michigan  
Ann Arbor, MI
- April 2021 Sedation for the Bedside ICU Nurse  
Continuing Nursing Education presentation to Critical Care Nursing Section  
Michigan Medicine, University of Michigan, Ann Arbor, MI
- May 2018 Drug-Induced Hyperthermia  
Internal Medicine Grand Rounds, Wake Forest Baptist Health  
Winston Salem, NC
- September 2016 Vasopressor Use in Shock  
Internal Medicine Grand Rounds, Wake Forest Baptist Health  
Winston Salem, NC
- April 2015 Practical Approach to Antifungal Therapy Utilization in the Surgical ICU  
ACCME Presentation, Division of Trauma and Surgical Critical Care  
Department of Surgery, Vanderbilt University Medical Center  
Nashville, TN
- January 2015 Progesterone for Traumatic Brain Injury  
ACCME Presentation, Division of Anesthesia Critical Care  
Department of Anesthesia, Vanderbilt University Medical Center  
Nashville, TN
- October 2014 Antifungal Therapy: Where Are We Now in Critically Ill Patients?  
ACPE Presentation, Department of Pharmacy  
Vanderbilt University Medical Center

Nashville, TN

February 2014      Thrombolytics for the Treatment of Submassive Pulmonary Embolism  
Department of Pharmacy, ACPE Seminar Presentation, Cleveland Clinic  
Cleveland, OH

#### **LOCAL AND IN-SERVICE PRESENTATIONS**

January 2015      Vasoactive Medications  
Nursing Intensive Care Education Course Lecture  
Nursing Education, Vanderbilt University Medical Center  
Nashville, TN

November 2014    Myxedema Coma  
Department of Pharmacy, Vanderbilt University Medical Center  
Nashville, TN

November 2014    Influenza Vaccination Policies and Procedures  
Presented to Trauma Nursing Unit Board, Vanderbilt University Medical Center  
Nashville, TN

June 2014      Treatment of Calcium Channel Blocker Overdose  
Department of Pharmacy, Education Conference Presentation, Cleveland Clinic  
Cleveland, OH

June 2014      Controlled Substance Prescribing Policies and Procedures  
Medical Resident Orientation, Cleveland Clinic  
Cleveland, OH

June 2014      Treatment of Diabetic Ketoacidosis and Electrolyte Abnormalities  
Department of Pharmacy, Advanced Pharmacy Practice Experience Student Lecture  
Cleveland Clinic, Cleveland, OH

November 2013    Treatment of Disseminated Mycobacterium avium Complex Infections  
Department of Pharmacy, Education Conference Presentation, Cleveland Clinic  
Cleveland, OH

September 2013    Treatment of Hyperglycemic Crisis: Diabetic Ketoacidosis  
Department of Pharmacy, Education Conference Presentation, Cleveland Clinic  
Cleveland, OH

May 2015      Ceftolozane/Tazobactam for Complicated Intra-abdominal Infections  
Critical Care Journal Club Presentation, Vanderbilt University Medical Center  
Nashville, TN

April 2015      Effects of Statin Use During Hospitalization for Intracerebral Hemorrhage  
Critical Care Journal Club Presentation, Vanderbilt University Medical Center  
Nashville, TN

April 2015      Impact of Clostridium difficile Infection in a Neutropenic Patient Population  
Clostridium Research Group Division of Infectious Disease, Vanderbilt University Medical Center  
Nashville, TN

March 2015      Dysglycemia in the Critically Ill Patient Population  
Multidisciplinary Adult Nutrition Service Rounds  
Center for Human Nutrition, Vanderbilt University Medical Center



## TEACHING

### DIDACTIC

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- 2020 – Present University of Michigan College of Pharmacy, Ann Arbor, MI  
*Course Coordinator*  
2021 – Present PHARMACY 702 (P3 Therapeutics), approximately 80 students per year  
*Lecturer*  
2020 – Present PHARMACY 702 (P3 Therapeutics), approximately 80 students per year  
Quantification of Renal Function  
Renal Replacement Therapy  
Chronic Kidney Disease  
Acute Kidney Injury and Drug-Induced Nephropathies  
Lab, Renal Cases  
Fluid Therapies  
Acid-Base  
Sodium and Potassium Disorders  
Calcium, Magnesium, and Phosphorus Disorders  
Lab, Acid-Base and Electrolyte Cases  
  
*Course Coordinator and Lecturer*  
PHARMACY 702 (P3 Therapeutics) Summer Remediation Course  
2023 6 students  
2022 6 students  
2021 1 student  
  
*Instructor*  
2020 – Present PharmD Investigations, PHARMACY 614/719/739  
2 pharmacy students per class year  
  
*Instructor*  
2020 – Present PHARMACY 730 Pharmacy Student Seminar  
2 P4 students per year
- 2017 – 2019 Wake Forest University College of Medicine, Winston Salem, NC  
*Lecturer* M4 Seminar, approximately 140 students per year  
Preparing for Residency Intern Year, Medication Clinical Pearls
- 2014 Belmont University College of Pharmacy, Nashville, TN  
*Course Coordinator*  
Special Topics in Pharmacotherapy: Critical Care Elective; 2 credit hours, 30 students  
  
*Lecturer* Agitation and Delirium  
Shock States and Hemodynamic Support  
Septic Shock  
Anemia of Critical Illness and Blood Conservation
- Additional didactic mentee not included in above coursework:  
2022 – Present Secondary Mentor, PhD Dissertation Committee Member  
Levi Hooper, Clinical Pharmacy and Translational Sciences PharmD/PhD Candidate

## EXPERIENTIAL

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### Experiential Rotations Precepted:

2020 – Present	Medical ICU, Michigan Medicine, University of Michigan, Ann Arbor, MI
2020	COVID ICU, Virtual APPE rotation for PharmD Class of 2020, University of Michigan
2015 – 2020	Medical ICU, Wake Forest Baptist Health, Winston Salem, NC
2013 – 2014	Primary Preceptor while PGY-2 Critical Care Resident at Vanderbilt University Medical Center, Nashville, TN

### Number of post-graduate pharmacy residents and PharmD APPE P4 students precepted on rotation in the ICU

Year	PGY-2 Critical Care	PGY-2 Infectious Diseases	PGY-2 Emergency Medicine	PGY-1	PharmD APPE	PharmD IPPE
2020-Present	4	3	1	8	11	2
2015-2020	8	4		19	15	
2013-2014					4	
<b>Total</b>	12	7	1	27	30	2

### PGY2 Critical Care Residents Trained while Program Coordinator and Current Position/Institution

2019 – 2020	Kara Kubbs, Cardiac ICU, OU Health
2018 – 2019	Kate Summers, Medical ICU Pharmacist, OU Health
2017 – 2018	Liz Kowalik, Medical ICU Pharmacist, UMass Memorial Hospital
2016 – 2017	Josh Arnold, Medical Oncology ICU Pharmacist, Ohio State University
2015 – 2016	Matt Watson, Medical ICU/Clinical Coordinator, Emory University

## SCHOLARSHIP

### PUBLICATIONS

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#### BOOK CHAPTERS

1. **Kenés MT**, Farina N. Fungal Infections in the Intensive Care Unit. In Flannery AH, Hall Zimmerman L, eds. Critical Care Self-Assessment Program, 2022 Book II. Infectious Diseases in the ICU. Lenexa, KS: American College of Clinical Pharmacy, 2022.
2. Bliss S, **Kenés MT**. Nutrition Support Services. In Boucher BA, Haas CE, eds. Critical Care Self-Assessment Program, 2018 Book III. Fluids and Nutrition/GI and Liver Disorders. Lenexa, KS: American College of Clinical Pharmacy, 2018.

#### ORIGINAL CONTRIBUTIONS

*\*Indicates direct student or resident mentee*

3. *\*Barker AK, Valley TS, **Kenés MT**, Sjoding MW. Sedation Practices for Intubated Non-COVID Patients Have Worsened in the Post-COVID Era. *Chest*. 2024. (online ahead of print).*
4. Eaton TL, Danesh V, Sevin CM, Potter K, Su H, Iwashyna TJ, Boehm L, McPeake J, the Critical and Acute Illness Recovery Organization (**CAIRO**) **Post-ICU Clinic Collaborative**. Importance of Reconnection With ICU Survivors to ICU Recovery Program Clinics. *Chest*. 2023. (online ahead of print).
5. Bolesta S, Burry L, Perreault MM, Gelinas C, Smith KE, Eadie R, Carini FC, Saltarelli K, Mitchell J, Harpel J, Stewart R, Riker RR, Fraser GL, Erstad BL; AduLt iatrogenic withdrawal sTudy in the ICU (**ALERT-ICU**) **Study Investigators**. International Analgesia and Sedation Weaning and Withdrawl Practices in Critically Ill Adults: The Adult Iatrogenic Withdrawal Study in the ICU. *Crit Care Med*. 2023. (online ahead of print).

6. Stollings JL, Poyant JO, Groth CM, Rappaport SH, Kruer RM, Miller E, Whitten JA, Mcintire AM, McDaniel CM, Betthauer KD, Mohammad RA, **Kenes MT**, Korona RB, Barber AE, MacTavish P, Dixit D, Yeung SYA. An International, Multicenter Evaluation of Comprehensive Medication Management by Pharmacists in ICU Recovery Centers. *J Intensive Care Med*. 2023. (online ahead of print).
7. Ankravs MJ, McKenzie CA, **Kenes MT**. Precision-Based Approaches to Delirium in Critical Illness: A Narrative Review. *Pharmacotherapy*. 2023. (online ahead of print).
8. King J, Chenoweth CE, England PC, Heiler A, **Kenes MT**, Raghavendran K, Wood W, Zhou S, Mack M, Wesorick D, Proudlock A. Early Recognition and Initial Management of Sepsis in Adult Patients Guideline. *Michigan Medicine Clinical Care Guidelines*. University of Michigan. 2023.
9. Mohammad RA, Nguyen CT, Costello, Poyant JO, Yeung YA, Landolf K, Artman KL, Taylor DC, **Kenes MT**, Alkhateeb T, Stollings JL. Medication Changes and Diagnosis of New Chronic Illnesses in COVID-19 Intensive Care Unit Survivors. *Ann Pharmacother*. 2022;56(9):973-80.
10. Parker AM, Brigham E, Connolly B, McPeake J, Agranovich AV, **Kenes MT**, Casey K, Reynolds S, Schmidt KFR, Kim SY, Kaplin A, Sevin CM, Brodsky MB, Turnbull AE. Addressing the Post-Acute Sequelae of SARS-CoV-2 Infections: A Multidisciplinary Model of Care. *Lancet Respir Med*. 2021;9(11):1328-41.
11. \*Ingebrigtsen M, Farina N, Miller J, Renius K, McSparron JI, **Kenes MT**. Cisatracurium Dosing Requirements in COVID-19 Compared to Non-COVID-19 Patients. *J Pharm Pract*. 2023;36(3):485-6.
12. Harwayne-Gidansky I, Zurca A, Maa T, Bhalala US, Malaiyandi D, Nawathe P, Sarwal A, Waseem M, **Kenes MT**, Vennero M, Emler L. Defining Priority Areas for Critical Care Simulation: A Modified Delphi Consensus Project. *Cureus*. 2021;13(6):e15844.
13. Pun BT, Badenes R, Heras La Calle G, Orun OM, Chen W, Raman R, Simpson BK, Wilson-Linville S, Hinojal Olmedillo B, Vallejo de la Cueva A, van der Jagt M, Navarro Casado R, Leal Sanz P, Orhun G, Ferrer Gómez C, Núñez Vázquez K, Piñeiro Otero P, Taccone FS, Gallego Curto E, Caricato A, Woien H, Lacave G, O'Neal HR Jr, Peterson SJ, Brummel NE, Girard TD, Ely EW, Pandharipande PP; **COVID-19 Intensive Care International Study Group**. Prevalence and Risk Factors for Delirium in Critically Ill Patients with COVID-19 (COVID-D): A Multicenter Cohort Study. *Lancet Respir Med*. 2020;9(3):239-50.
14. **Kenes MT**, McSparron JI, Marshall VD, Renius K, Hyzy RC. Propofol-Associated Hypertriglyceridemia in Coronavirus Disease 2019 Versus Noncoronavirus Disease 2019 Acute Respiratory Distress Syndrome. *Crit Care Explor*. 2020;2(12):e0303.
15. Cagino LM, Kercheval JB, **Kenes MT**, McSparron JL, Blank R, Chinn SB, Claar DD, Iwashyna TJ, DeCardenas J. Association of Tracheostomy with Changes in Sedation During COVID-19: A Quality Improvement Evaluation at the University of Michigan. *Ann Am Thorac Soc*. 2020;18(5):907-9.
16. \*Goad NT, Bakhru RN, Pirkle JL, **Kenes MT**. Association of Hyperchloremia with Unfavorable Clinical Outcomes in Adults with Diabetic Ketoacidosis. *J Intensive Care Med*. 2020;35(11):1307-13.
17. Roberts RJ, Miano TA, Hammond DA, Patel GP, Chen JT, Phillips KM, Lopez N, Kashani K, Qadir N, Cairns CB, Mathews K, Park P, Khan A, Gilmore JF, Brown ART, Tsuei B, Handzel M, Chang AL, Duggal A, Lanspa M, Herbert JT, Martinez A, Tonna J, Ammar MA, Nazer LH, Heavner M, Pender E, Chambers L, **Kenes MT**, Kaufman D, Downey A, Brown B, Chaykosky D, Wolff A, Smith M, Nault K, Gong MN, Sevransky JE, Lat I; Observation of VariatiOn in fLUids adMinistEred in shock-CHaracterizAtion of vaSoprEssor Requirements in Shock (VOLUME-CHASERS) Study Group and SCCM Discovery Network.. Evaluation of Vasopressor Exposure and Mortality in Patients with Septic Shock. *Crit Care Med*. 2020;48(10):1445-53.
18. Chen JT, Roberts R, Fazzari MJ, Kashani K, Qadir N, Cairns CB, Mathews K, Park P, Khan A, Gilmore JF, Brown ART, Tsuei B, Handzel M, Lee Chang A, Duggal A, Lanspa M, Herbert JT, Martinez A, Tonna J, Ammar MA, Hammond D, Nazer LH, Heavner M, Pender E, Chambers L, **Kenes MT**, Kaufman D, Downey A, Brown B, Chaykosky D, Wolff A, Smith M, Nault K, Sevransky J, Gong MN; VOLUME-CHASERS Study Group and Society of Critical Care Medicine Discovery Network.. Variation in Fluid and Vasopressor Use in Shock With and Without Physiologic Assessment: A Multicenter Observational Study. *Crit Care Med*. 2020;48(10):1436-44.
19. Mohammad RM, Betthauer KD, \*Boostaver KR, Coe AB, Kolpek JH, Fritschle AC, Jagow B, **Kenes, MT**, MacTavish P, Slampak-Cindric AA, Whitten JA, Jones C, Simonelli R, Rowlands I, Stollings JL Clinical Pharmacist

Services within Intensive Care Unit Recovery Clinics: An Opinion of the Critical Care Practice and Research Network of the American College of Clinical Pharmacy. *J Am Coll Clin Pharm.* 2020;3:1369-79.

20. Stringer KA, Puskarich MA, **Kenes MT**, Dickson RP. COVID-19: The Uninvited Guest in the Intensive Care Unit - Implications for Pharmacotherapy. *Pharmacotherapy.* 2020;40(5):382-6.
21. Coe AB, \*Bookstaver RE, Fritschle AC, **Kenes MT**, MacTavish P, Mohammad RA, Simonelli RJ, Whitten JA, Stollings JL. Pharmacists' Perceptions on their Roles, Activities, Facilitators, and Barriers to Practicing in a Post-Intensive Care Recovery Clinic. *Hospital Pharmacy.* 2020;55(2):119-25.
22. Bakhru RN, Davidson JF, \*Bookstaver RE, **Kenes MT**, Peters SP, Welborn KG, Creech OR, Morris PE, Files DC. Implementation of an ICU Recovery Clinic at a Tertiary Care Academic Center. *Crit Care Expl.* 2019;1(8):e0034.
23. Haines KJ, Sevin CM, Hibbert E, Boehm LM, Aparanji K, Bakhru RN, Bastin AJ, Beesley SJ, Butcher BW, Drumright K, Eaton TL, Farley T, Firshman P, Fritschle A, Holdsworth C, Hope AA, Johnson A, **Kenes MT**, Khan BA, Kloos JA, Kross EK, MacLeod-Smith BJ, Mactavish P, Meyer J, Montgomery-Yates A, Quasim T, Saft HL, Slack A, Stollings J, Weinhouse G, Whitten J, Netzer G, Hopkins RO, Mikkelsen ME, Iwashyna TJ, McPeake J. Key Mechanisms by which Post-ICU Activities can Improve In-ICU Care: Results of the International THRIVE Collaboratives. *Intensive Care Medicine.* 2019;47(9):1194-200.
24. Haines KJ, McPeake J, Hibbert E, Boehm LM, Aparanji K, Bakhru RN, Bastin AJ, Beesley SJ, Beveridge L, Butcher BW, Drumright K, Eaton TL, Farley T, Firshman P, Fritschle A, Holdsworth C, Hope AA, Johnson A, **Kenes MT**, Khan BA, Kloos JA, Kross EK, Mactavish P, Meyer J, Montgomery-Yates A, Quasim T, Saft HL, Slack A, Stollings J, Weinhouse G, Whitten J, Netzer G, Hopkins RO, Mikkelsen ME, Iwashyna TJ, Sevin CM. Enablers and Barriers to Implementing ICU Follow-up Clinics and Peer Support Groups Following Critical Illness: The Thrive Collaboratives. *Crit Care Med.* 2019;45(7):939-47.
25. Lat I, Daley MJ, Shewale A, Pangrazzi MH, Hammond D, Olsen KM; **DEFINE study group and the Discovery Research Network**. A Multicenter, Prospective, Observational Study to Determine Predictive Factors for Multidrug Resistant Pneumonia in Critically Ill Adults: The DEFINE Study. *Pharmacotherapy.* 2018;39(3):253-60.
26. Bakhru RN Davidson JF, \*Bookstaver RE, **Kenes MT**, Welborn KG, Morris PE, Clark Files D. Physical Function Impairment in Survivors of Critical Illness in an ICU Recovery Clinic. *J Crit Care.* 2018;45:163-9.
27. **Kenes MT**, Stollings JL, Wang L, Ely EW, Girard TD, Pandharipande PP. Persistence of Delirium after Cessation of Sedative and Analgesics and Impact on Clinical Outcomes in Critically Ill Patients. *Pharmacotherapy.* 2017;37(11):1357-65.
28. **Kenes MT**, Leonard MC, Bauer SR, Wyman MJ. Comparison of Liposomal Bupivacaine and Elastomeric Continuous Infusion Bupivacaine Pump for the Treatment of Post-Operative Pain. *Am J Health Syst Pharm.* 2015;72:S127-32.

## LETTERS TO THE EDITOR

29. \*Summers KL, Mihm AE, **Kenes MT**. Direct Oral Factor Xa Inhibitors in Patients with Morbid Obesity. *Lancet Haematology* 2019;6(9):e446.

## PEER-REVIEWED CASE REPORTS

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2. Ingebrigtsen M, \*Schang S, Tapper E, McSparron JI, Chen X, Hyzy RC, **Kenes MT.** Phenobarbital versus Benzodiazepines for Treatment of Alcohol Withdrawal in the Intensive Care Unit.
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## ABSTRACTS

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## RESEARCH GRANTS

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## PEER REVIEWED

Role: Other Significant Contributor; PIs: Robert Dickson, Michael Sjoding, Kathleen Stringer. NIH/NHLBI R01. (\$5,060,751). The Role of the Microbiome in the Acute Respiratory Distress Syndrome: A Translational, Molecular Approach. Unfunded.

- Contributed successful pharmaceutical design of three medication regimens (antimicrobials for selective decontamination of the digestive track, antimicrobials for anaerobe depletion, and placebo), ensuring complete oral intake among alive and non-intubated pigs administered twice daily for seven days, to gather pre-submission data of independently publishable quality.

## **NON-PEER REVIEWED**

Role: PI. College of Pharmacy, University of Michigan. Unrestricted Research Grant for statistical support. Propofol-Associated Hypertriglyceridemia in COVID-19 versus Non-COVID-19 Critically Ill Patients. Funded 2020.

Role: Co-Investigator (10% effort); PI: Jill Ohar. Investigator-Initiated, Unrestricted Research Grant. Boehringer Ingelheim. Utilization of Peak Inspiratory Flow Rate in Chronic Obstructive Pulmonary Disease. Funded 2019.

Role: Study Coordinator (no effort); PI: Jill Ohar. Investigator-Initiated Grant. Sunovion Pharmaceuticals Inc (\$604,026). Preliminary Study for Comparison of Triple Nebulizer Therapy versus Dry Powdered Inhalers for Care Transitions in Chronic Obstructive Pulmonary Disease. Funded 2017.

Role: Primary Investigator; Research Mentor: Joanna Stollings. Vanderbilt Institute for Clinical and Translational Research Grant for statistical support (\$5,000). The Persistence of ICU Delirium after Cessation of Sedatives and Analgesics. Vanderbilt University Medical Center. Funded 2015.

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