

JOHN W. DEVLIN, PHARM.D., BCCCP, MCCM, FCCP

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**Associate Scientist, Division of Pulmonary/Critical Care Medicine,
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Boston, MA**

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EDUCATION/EMPLOYMENT HISTORY

Education

1996 - 1997 Critical Care Pharmacy Fellowship, Henry Ford Hospital, Detroit, MI
1994 - 1996 Doctor of Pharmacy, University of Toronto, Toronto, ON
1988 - 1989 Pharmacy Practice Residency, London Health Sciences Centre, London, ON
1984 - 1988 Bachelor of Science in Pharmacy, University of Toronto, Toronto, ON

Employment History

2020-Present Instructor in Medicine, Harvard Medical School, Boston, MA
2020-Present Associate Scientist, Division of Pulmonary and Critical Care Medicine, Brigham and Women's Hospital, Boston, MA
2020-Present Critical Care Pharmacist, Department of Pharmacy, Brigham and Women's Hospital, Boston, MA
2014-2015 Acting Chair, Department of Pharmacy Practice, Northeastern University, Boston, MA
2013-Present Professor (with tenure), School of Pharmacy, Northeastern University, Boston, MA
2011-2020 Special and Scientific Staff, Division of Pulmonary, Critical Care and Sleep Medicine, Department of Medicine, Tufts Medical Center, Boston, MA
2009-2013 Associate Professor (with tenure), School of Pharmacy, Northeastern University, Boston, MA
2005-2020 Adjunct Associate Professor, Tufts University School of Medicine, Boston, MA
2004-Present Director, Critical Care Pharmacy Fellowship Program, School of Pharmacy, Northeastern University, Boston, MA
2003-2009 Associate Professor (without tenure), School of Pharmacy, Northeastern University, Boston, MA
2003-2020 Clinical Pharmacist Specialist, Critical Care (MICU), Tufts Medical Center, Boston, MA
2002-2003 Adjunct Associate Professor, College of Pharmacy and Allied Health Professions, Wayne State University, Detroit, MI
2000-2003 Director, Critical Care Fellowship Program, College of Pharmacy and Allied Health Professions, Wayne State University, Detroit, MI
1996-2002 Adjunct Assistant Professor, College of Pharmacy, Wayne State University, Detroit, MI
1997-2003 Clinical Pharmacist Specialist, Surgery/Critical Care, Detroit Receiving Hospital and University Health Center, Detroit, MI
1994-1996 Clinical Pharmacist, Intensive Care Unit, Toronto Hospital, General Division, Toronto, ON
1992-1994 Clinical Pharmacist, Critical Care/General Medicine, Greater Victoria Hospital Society Victoria, BC
1989-1991 Clinical Pharmacist, Critical Care, St. Joseph's Hospital, Hamilton, ON

Certification and Licensure

2016-Present Board Certification as a Critical Care Pharmacotherapy Specialist (BCCCP)
2003-Present Pharmacist Licensure: State of Massachusetts (#25643)

1997-2010 Board Certification as a Pharmacotherapy Specialist (BCPS)
 1997-Present Advanced Cardiac Life Support (ACLS)

Awards and Honors

2027 Distinguished Research Award, Society of Critical Care Medicine
 2026 Therapeutic Frontiers Lecture Award. American College of Clinical Pharmacy.
 2021 Best post award:resident/fellows (1st runner up), American College of Clinical Pharmacy (Ting Ting Wu, PharmD)
 2020 Best poster award:resident/fellows, American College of Clinical Pharmacy (Matt Duprey PharmD, PhD)
 2020 Master of Critical Care Medicine (MCCM), American College of Critical Care Medicine
 2020 In Training Research Award, Society of Critical Care Medicine (Matt Duprey, PharmD, PhD awardee)
 2018 Distinguished Service Award, Society of Critical Care Medicine
 2013 Distinguished Scholar and Fellow, National Academies of Practice (NAP)
 2012 Faculty inductee, Rho Chi Honor Society, Beta Tau Chapter, Northeastern University
 2011 Critical Care Practice and Research Network Research Achievement Award, American College of Clinical Pharmacy
 2007 Visiting Professor Award, Society of Critical Care Medicine
 2007 Pharmacy Fellowship Research Award, Society of Critical Care Medicine
 2007 Pharmacy Specialty Research Award, Society of Critical Care Medicine
 2005 Fellow (FCCP), American College of Clinical Pharmacy
 2005 GI/Liver/Nutrition Practice and Research Network Travel Award, American College of Clinical Pharmacy
 2004 Joseph F. Dasta Critical Pharmacy Research Grant, Society of Critical Care Medicine
 2003 Fellow (FCCM), American College of Critical Care Medicine
 2002 Bayer Research Award, Fifth Annual Conference of Infectious Disease Pharmacotherapy
 2000 Nursing Section Research Award, Society of Critical Care Medicine
 1998 Bayer Publication Award, Canadian Society of Hospital Pharmacists
 1998 Educational Scholarship Research Award, Society of Critical Care Medicine
 1996 Baxter Award, University of Western Ontario/McMaster University Critical Care Research Day

SCHOLARSHIP/RESEARCH

Research Funding

Current

R13185760 (MPI: Devlin, John W/Busbsy-Whitehead, Jan) 1/1/21 to 12/31/25

National Institutes of Aging

The Network for Investigation of Delirium: Unifying Scientists (NIDUS) 9th to 13th Annual Delirium Bootcamps: a foundation for future exploration.

Goal: To formally mentor junior investigators focused on delirium research through a 3-day annual bootcamp.

Role: Multiple Principle Investigators

R33HL23452 MPI: Inouye, Sharon K/Jones, Richard)

9/1/21 to 08/31/26

National Institutes of Aging

NIDUS II: Advanced-stage development and utilization of the NIDUS research infrastructure to advance interdisciplinary aging research in delirium.

Goal: This is a collaborative network to advance scientific research on the causes, mechanisms, outcomes, diagnosis, prevention, and treatment of delirium in older adults.

Role: Co-Investigator

R01HS029009-01

Agency for Healthy Care Quality and Research (PI: Sikora, Andrea)

9/1/22 to 8/31/27

Artificial intelligence-based health IT tools to optimize critical care pharmacist resources through adverse drug event prediction

Role: Consultant

PI: Hughes, Christopher
Sedana Medical

3/1/22 to 12/31/25

A phase 3, multicenter, randomized, double-blind, trial evaluating inhaled sevoflurane versus IV propofol in mechanically ventilated adults requiring continuous sedation.

Goal: To evaluate the safety and efficacy of inhaled sevoflurane (administered via the anaconda device) vs propofol in mechanically ventilated, critically ill adults.

Role: Site Principle Investigator

Under Review:

MPI: Devlin, John W/Oh, Esther
R33: National Institutes of Aging

NIDUS III: Advanced-stage development and utilization of the NIDUS research infrastructure to advance interdisciplinary aging research in delirium

Goal: This is a collaborative network to advance scientific research on the causes, mechanisms, outcomes, diagnosis, prevention, and treatment of delirium in older adults.

Role: MPI

MPI: Sikora, Andrea/Smith Susan
R03: National Institutes of Aging

Application of the OPTIM Data Warehouse to Optimize Critical Care Pharmacist Workload and Reduce ICU Delirium in Older Adults

Goal: To identify the optimal critical care pharmacist (CCP)-to-patient ratio that will improve the safety, accessibility, quality, and value of intensive care unit (ICU) care for older adults at high risk for ICU adverse drug events (ADEs), delirium, and Alzheimer's Disease (AD)/AD-Related Dementias (ADRD).

Role: Collaborator

PI: Hughes, Christopher
R01: National Institutes of Aging

DIAAMOND: Differential Impact of Atypical Antipsychotic Medications On acute Neurologic Dysfunction and associated outcomes in critical illness.

Goal: This multicenter pragmatic trial seeks to evaluate the efficacy and safety of atypical antipsychotics on acute on agitation and delirium in critically ill adults.

Role: Co-Investigator

PI: Kamdar, Biren
PCORI

Sleep Harmonization via buNdlled Team-Based Interventions in the ICU (SHANTI-ICU)

Goal: This pragmatic, multi-site randomized trial will compare a non-pharmacologic sleep checklist (e.g., reduce noise/light, cluster care, offer earplugs or eye masks) and a pharmacologic checklist (e.g., sleep aid medications, drug deprescribing and timing changes) versus a non-pharmacologic sleep checklist alone in critically ill adults.

Role: Co-Investigator

PI: Hosie, Annmarie
2025 Australian MRFF

Co-design, delivery and impact measurement of a new Delirium Standard implementation kit for Australian hospitals.

Role: Collaborator

PI: Agar, Meera
2025 Australian MRFF

Centre of Research Excellence in Delirium Prevention, Treatment & Recovery

Role: Collaborator

Past

- R21AHQR8480441001
Agency for Healthy Care Quality and Research (PI: Sikora, Andrea) 1/1/22 to 12/31/23
Use of machine learning models for medication regimen complexity to predict critical care pharmacist resources.
Role: Co-Investigator
- R21/R33 AG05797 (PI: Briesacher, Becky A) 12/1/18 to 11/30/23
National Institutes of Aging
Clarifying the Relationship between Delirium, Alzheimer's Disease, and Related Dementias.
Goal: This nationwide and longitudinal study will provide a novel and robust exploration of the critical role that appropriate NH care plays after acute care hospital discharge in patients with delirium, dementia or both.
Role: Co-Investigator
- CIHR3456DRX (PI: Burns, Karen E) 9/1/18 to 8/31/23
Canadian Institute for Health Research
Frequency of Screening and SBT Technique Trial - North American Weaning Collaboration (FAST-NAWC)
Goal: This multicenter, factorial design, randomized controlled trial with concealed allocation, seeks to comparing the effect of Goal: both screening frequency (once versus at least twice daily [ALTD]) and SBT technique (Pressure Support [PS] + Positive End-Expiratory Pressure [PEEP] vs T-piece) on the time to successful extubation in 760 critically ill adults who are invasively ventilated for at least 24 h in 20 North American ICUs.
Role: Co-Investigaor
- MPI: Devlin, John/Wallace, Byron 7/1/21 to 9/30/22
Northeastern University Tier 1 Award
Learning to predict disrupted sleep from critical care notes with indirectly supervised neural models.
Goal: Characterize rule-based patterns in EHR ICU clinician notes associated with disorganized sleep to train a model to predict when ICU patients are currently experiencing disrupted sleep.
Role: Multiple Principle Investigator
- PI: Devlin, John W 6/1/21 to 4/30/22
BioXcel Therapeutics Inc
A phase 2, multicenter, randomized, double-blind, placebo-controlled, ascending starting dose finding, safety, and efficacy study of BXCL501 in agitation associated with delirium in ICU patients.
Goal: To evaluate the dose, safety and efficacy of a new subbuccal film tab formulation of dexmedetomidine for the treatment of delirium in critically ill adults.
Role: Principle Investigator
- ZonMW8480441001 (PI: van der Jaght, Mathieu) 1/1/18 to 6/30/21
Nederlandse Organisatie voor Wetenschappelijk (NWO)
Efficacy of haloperidol to decrease the burden of Delirium In adult Critically ill patiEnts (EuRIDICE): study protocol for a prospective randomised multi-center double-blind placebo-controlled clinical trial.
Goal: This multicentre, randomize, placebo-controlled trial seeks to evaluate the effect of IV haloperidol for the treatment of delirium in critically ill adults on relevant outcomes including delirium symptom burden and long term cognitive, functional and psychological outcomes.
Role: Co-Investigator
- F31AGO66460-01 (PI: Duprey, M) 9/1/19 to 8/31/20
National Institute of Aging
Perioperative Medication Use, Postoperative Delirium, and Cognition in Older Adults Undergoing Elective Non-Cardiac Surgery
Goal: Using the SAGES, this NIA graduate fellowship award supports Dr. Devlin's current PhD student, Mathew Duprey's pharmacoepidemiologic investigation that seeks to evaluate the association between pre- and post-operative medication on post-operative delirium and cognition at both 12 and 24 months.
Role: Co-Investigator/Mentor
American College of Clinical Pharmacy Research Foundation (PI: Duprey, M) 10/1/18 to 9/30/20

2018 Graduate Student Research Award

Opioid Associated Delirium in Critically Ill Adults

Goal: Using a 12,000 patient Dutch ICU database this cohort study, by using for daily Markov transition models and multinomial regression analysis that account for pain scores, seeks to measure the association between daily opioid exposure and delirium occurrence in critically ill adults.

Role: Co-Investigator/Mentor

AstraZeneca Pharmaceuticals (PI: Devlin, John W)

11/1/16 to 10/31/19

Naloxegol (Movantik) for the Prevention of Opioid Induced Constipation in Critically Ill Adults Initiated on Scheduled IV Opioid Therapy: A Randomized, Double-blind, Placebo- Controlled, Pilot Study.

Goal: This pilot study seeks to evaluate and efficacy and safety of naloxegol for the prevention of opioid induced constipation in critically ill adults.

Role: Principle Investigator

R01HL111111 (PI: Pandhardipande, Pratik)

8/1/12 to 6/30/19

National Heart Lung and Blood Institute

The MENDS-II Study: Maximizing the Efficacy of Sedation and Reducing Neurological Dysfunction and Mortality in Septic Patients with Acute Respiratory Failure

Goal: The MENDS II study will compare propofol and dexmedetomidine and determine the best sedative medication to reduce delirium and improve survival and long-term brain function in our most vulnerable patients- the ventilated septic patient.

Role: Co-Investigator

1R21G04567212-01A1 (PI: Briesacher, BA)

3/1/15 to 2/1/17

National Institutes of Aging

Consequences of Reducing Antipsychotic Prescribing in Nursing Homes

Goal: The objectives of this study are to describe the current landscape of antipsychotic use in the nursing home setting and estimate how the antipsychotic reduction campaign influenced prescribing.

Role: Co-Investigator

Arabian Cultural Ministry (PI: Devlin, John W)

7/1/13 to 6/30/16

Financial Support for Abdullah Al-Hammad, PharmD, Critical Care Fellowship Program

Role: Principle Investigator

Hospira Pharmaceuticals Canada (PI: Skrobik, Yoanna)

6/1/13 to 5/30/16

The effect of a dexmedetomidine nocturnal sleep protocol on delirium incidence, sleep quality and healthcare costs in critically ill patients: A prospective randomized, double-blind, pilot study

Goal: To determine whether a dexmedetomidine nocturnal sleep protocol will reduce delirium and improve sleep quality among patients requiring admission to the ICU.

Role: Co-Investigator

Hospira Pharmaceuticals

9/12 to 12/14

Incidence, characterization and outcomes of adverse effects associated with IV sedation in the United States over an 8 year period.

The primary goal of this project is to collaborate with Adverse Events Inc (a beta-stage, web-based, searchable database of the FDA's MedWatch system and IMS Inc to determine the incidence, types and outcomes of adverse events associated with IV sedation in the United States between 2004 and 2011.

Role: Principal Investigator

1R15AG034915-01A1 (PI: Devlin John W)

9/1/10 to 8/31/13

National Institutes of Aging

Preventing ICU subsyndromal delirium conversion to delirium with haloperidol

Goal: The primary goal of this ICU clinical study is to determine whether the administration of low-dose IV haloperidol in mechanically ventilated patients with subsyndromal delirium prevents delirium.

Role: Principle Investigator

- Nederlandse Organisatie voor Wetenschappelijk (NWO) 1/1/13 to 4/30/13
NWO visiting scientist travel grant
The primary goal of this travel grant (from Netherland's equivalent to the NIH) is to support the travel costs of Dr. Devlin during a 2 month sabbatical visit to Utrecht Medical Center to work with Dr. Arjen Slooter's ICU delirium research team.
Role: Co-I (A Slooter, PI)
- Hospira Pharmaceuticals 9/1/09 to 12/31/12
Efficacy and safety of dexmedetomidine during non-invasive positive pressure ventilation for patients with acute respiratory failure: a randomized, double-blind, placebo-controlled study.
This randomized, double-blind, placebo-controlled ICU clinical study is seeking to determine whether the addition of low-dose dexmedetomidine sedation improves non-invasive ventilation tolerance and comfort for patients admitted to the ICU with acute respiratory failure who are being managed by non-invasive ventilation.
Role: Principle Investigator
- Canadian Foundation for Critical Care Research 6/1/10 to 3/31/12
Psychological, cognitive, and sleep morbidity following the use of a sedation protocol vs. a sedation protocol and daily sedative interruption in critically ill, mechanically ventilated adults. SLEAP-Sleep, Cognition and Psychology (SLEAP-SCP) Study
Role: Co-I (S. Mehta PI)
- Canadian Institute for Health Research PI: (Mehta, Sangeeta) 10/1/08 to 3/31/12
Randomized trial of daily sedative interruption in critically ill, mechanically ventilated patients being managed with a sedation protocol.
Role: Co-Investigator
- National Institutes of Health 7/1/08 to 6/31/10
Expert panel member of the Therapeutics, Development and Implementation Component of the Tufts University School of Medicine's Clinical and Translational Science Initiative.
Role: Co-I (H. Selker PI)
- Hospira Pharmaceuticals 9/1/08 to 8/31/09
Prevalence of symptoms associated with the propofol infusion syndrome (PRIS) and validation of a PRIS mortality scoring system.
Role: Principle Investigator
- University of Massachusetts Medical School 7/1/07 to 6/31/08
Studying the treatment of acute hypertension (STAT).
Role: Principle Investigator
- Society of Critical Care Medicine Pharmacy Fellowship Award 7/01/07 to 6/31/09
A program of delirium investigation.
Role: Principle Investigator
- Society of Critical Care Medicine 9/1/05 to 8/31/07
AstraZeneca Pharmaceuticals
The efficacy and safety of quetiapine in medical intensive care unit patients with delirium: A randomized, double-blind, placebo-controlled study.
Role: Principle Investigator
- TAP Pharmaceutical Products 11/1/04 to 6/31/07
Comparison of enteral vs. parenteral lansoprazole pharmacodynamic response in critically ill patients
Role: Principle Investigator

Refereed Articles**Total = 273****Current H-Score = 65****Original Research**

169. Tanios MA, Nguyen H, Nahmias, Park H, Patel J, Beltran A, Tanios M, Mahidhara, Shaban Y, Fraser DR, **Devlin JW**. Effectiveness of analgesation protocol on duration of mechanical ventilation in adults with trauma: a pragmatic, cluster, randomized study. *Int J Clin Trials* 2026 (in press)
168. Hosie A, Agar MR, Ries N, Hepworth A, Sanders R, Kramer K, Evered L, Ma D, **Devlin JW**. Understanding the unique ethical challenges in randomized controlled trials of delirium Interventions for older adults: a rapid review. *Anesthesia and Analgesia* 2026 (in press)
167. Zhao B, Shen Y, **Devlin JW**, Murphy DJ, Smith SE, Murray B, Rowe S, Sikora A. Prediction of pharmacist medication interventions using medication regimen complexity. *JAMIA Open* 2025 Nov 3:8(6):ooaf138.
166. Murray B, Zhang T, Chen Z, Chen X, Zhao B, Smith SE, **Devlin JW**, Murphy DJ, Kamaleswaran R, Sikora A. Augmenting mortality prediction in critically ill adults with medication data and machine learning models. *Crit Care Explorations* 2025;7(10):e1331.
165. Tanios M, Nguyen M, **Devlin JW**, et al. impact of adding an airway safety prompt to the a-f bundle on unplanned extubation in the intensive care unit. *BMJ Open Quality* 2025;10;14(3):e003196.
164. Sikora A, Min W, **Devlin JW**, et al. Effect of comprehensive medication management on mortality in critically ill patients. *Crit Care Med* 2025;53(10):e1995-e2004.
163. Chase A, Most A, Sikora A, Smith SE, **Devlin JW**, et al. Evaluation of large language models' ability to identify clinically relevant drug-drug interactions and generate high-quality clinical pharmacotherapy recommendations. *Am J Health Syst Pharm* 2025 (ahead of press July 1)
162. Tanios MA, Stocking JC, Charchafliieh JG, Miller AG, Patel JV, Vilella AL, Nguyen HM, Epstein SK, Beltran A, **Devlin JW**. Airway safety during mechanical ventilation: survey of ICU clinicians practices and perceptions *Crit Care Explor* 2025 Mar 24;7(4):e1234
161. Keats K, Deng S, Chen X, Zhang T, **Devlin JW**, et al. Unsupervised machine learning analysis to identify patterns of ICU medication use for fluid overload prediction. *Pharmacotherapy* 2025; 45(2):76-86.
160. **Devlin JW**, Sieber F, Akeju O, et al. Advancing delirium treatment trials: recommendation for future research from the NIDUS Delirium Network. *Crit Care Med* 2025; 53(1):e15-e38
159. Boncyk C, **Devlin JW**, Faisal H, et al. INhaled Sedation vs. Propofol in REspiratory failure in the Intensive Care Unit (INSPIRE-ICU1): protocol for a randomised, controlled trial. *BMJ Open* 2024;14(10): e086946.
158. Burns KEA, Wong J, Rizvi L, Lafreniere-Roula M, Thorpe K, **Devlin JW**, et al. Frequency of Screening and Spontaneous Breathing Trial Technique (FAST) weaning trial. *JAMA* 2024; 332(21):1808-1821.
157. Tanios M, Wu TT, Nguyen M, Smith L, Mahidhara R, **Devlin JW**. Comparing the impact of targeting limited driving pressure to low tidal volume ventilation on mortality in mechanically ventilated adults with COVID-19 ARDS: An exploratory target trial emulation. *BMJ Open Resp Research* 2024; 11(1):e002439.
156. Saczynski JS, Koethe B, Fick D, Vo QT, **Devlin JW**, Marcantonio ER, Briesacher BA. Cognitive and functional trajectories in SNF: differences by delirium and Alzheimer's disease and related dementias. *J Amer Ger Soc* 2024; 71(11):3501-3509.
155. Sikora A, Keats K, Murphy DM, **Devlin JW**, et al. A common data model for the standardization of intensive care unit medication features. *JAMIA Open* 2024; May 2;7(2):ooae033.
154. Ottens TH, van den Boogaard M, Page V, Oldham M, Nydahl P, Negro A, de Raedt S, van Gool P, Maas MB, Wijdicks EF, Hansen HC, Friedrich ME, Neufeld KJ, Kamholz B, Bievenu OJ, Rosenthal LJ, Radtke F, Kotfis KL, Sanders RD, Spies CD, Hanison J, Pandharipande P, MacLulich AMJ, Morandi A, Caplan G, Oh ES, Vardy E, Marcantonio ER, van Munster M, Muller-Werdan U, Inouye SK, **Devlin JW**, et al. The Delphi delirium management algorithms: A practical tools for clinicians the results of a modified Delphi expert consensus approach. *Delirium* 2024;10:56392.
153. Hume NE, Zervas I, Wong A, Klein-Fedyshin M, Smithburger PL, Buckley MS, **Devlin JW**, Kane-Gill SL. Clinical impact of the implementation strategies used to apply PAD/PADIS guideline recommendations: a systematic review and meta-analysis. *Crit Care Med* 2024;52(4):626-636.
152. Wu TT, Vernooij LM, Duprey MS, Zaal IJ, Gelinac C, **Devlin JW**, Slooter AJC. Relationship between pain and delirium in critically ill adults. *Crit Care Explorations* 2023; 5(12):e1012.
151. Wu TT, Smith LH, Vernooij LM, Patel E, **Devlin JW**. Data missingness reporting and use of methods to address it in critical care cohort studies. *Crit Care Explorations* 2023; 5(11):e1005.

150. Sikora A, Zhang T, Murphy DJ, Smith SE, Murray B, Kamaleswaran R, Chen X, Buckley M, Rowe S, **Devlin JW**. Machine learning vs. traditional regression analysis for fluid overload prediction in the ICU. *Nature Sci Rep* 2023 Nov 10;13(1):19654.
149. Smit L, Slooter AJC, **Devlin JW**, et al. Efficacy of haloperidol to decrease the burden of delirium in adult critically ill patients: the EuRIDICE randomized clinical trial. *Crit Care* 2023; 30;27(1):413.
148. Wu TT, Steiger G, Smith LH, **Devlin JW**, Slooter AJC. Clonidine is associated with faster first resolution of incident ICU delirium than antipsychotics. *J Crit Care* 2023; 26;79:154433.
147. Sikora A, Keats K, Murphy DJ, **Devlin JW**, Smith SE, Murray B, Rowe S, Coppiano L, Kamaleswaran R. A common data model for the standardization of intensive care unit (ICU) medication features in artificial intelligence (AI) applications. *medRxiv* 2023.09.18.23295727.
146. Burns KEA, Lafrienier-Roula M, Hill NS, Cook DJ, Seely AJE, Rochweg B, Mayette M, D'Aragon F, **Devlin JW**, et al. Frequency of Screening and SBT Technique Trial - North American Weaning Collaboration (FAST-NAWC): an update to the protocol and statistical analysis plan. *Trials* 2023 Oct 2;24(1):626.
145. Sikora A, **Devlin JW**, Yu M, Zhang T, Chen X, Smith SE, Murray B, Buckley MS, Rowe S, Murphy DJ. Evaluation of medication regimen complexity as a predictor for mortality. *Nature Sci Rep* 2023; 13:10784.
144. Heaver MS, Louzon PR, Gorman EF, Landolf KM, Ventura D, **Devlin JW**. A rapid systematic review of pharmacologic sleep promotion modalities in the intensive care unit. *J Intensive Care Med* 2024;39(1):28-43.
143. Sikora A, Keats K, Kamaseswaran R, Murray D, **Devlin JW**. Pharmacophenotype identification of intensive care unit medications using unsupervised cluster analysis of the ICURx Common Data Model. *Crit Care* 2023; 27(1):167.
142. Rose L, Blackwood B, Needhm DM, **Devlin JW**, et al. Measures for the core outcome set for research evaluating interventions to prevent and/or treat delirium in critically ill adult: an interventional consensus study. *Crit Care Explorations* 2023; 5(4):e0884
141. Knaert MP, Ayas NT, Bosma KJ, Drouot X, Heavner M, Owens RL, Watson PL, Wilcox ME, Anderson ML, Cordoza ML, **Devlin JW**, et al. Causes, consequences, and treatments of sleep and circadian disruption in the intensive care unit: an official American Thoracic Society research statement. *Am J Respir Crit Care* 2023;207(7):e49-e68.
140. **Devlin JW**, Train SE, Burns KEA, Massaro A, Wu TT, Castor T, Vassaur J, Selvan K, Kress JP, Erstad B. Critical care pharmacist attitudes and perceptions of neuromuscular blocker infusions in ARDS. *Ann Pharm* 2023;57(11):1282-1290
139. Train SE, Erstad B, Burns KEA, Massaro A, Wu TT, Vassaur J, Selvan K, Kress JP, **Devlin JW**. Critical care physician attitudes and perceptions of neuromuscular blocker infusions in ARDS. *J Crit Care* 2022; 72:154165.
138. Wu TT, Zegers M, Griffith J, Kooken R, **Devlin JW**, Van den Boogaard M. Pre-ICU anxiety and depression and the risk of delirium in critically ill adults. *Crit Care Explorations* 2022; 4(7): e0743.
137. Møller MH, Alhazzani W, Lewis K, Belle-Cote E, Granholm A, Centofanti J, McIntyre WB, Spence J, Duhailib ZA, Needham DM, Evans L, Reintam Blaser A, Pisani MA, Aragon F, Shankar-Hari M, Alshahrani M, Citerio G, Arora R, Mehta S, Girard T, Ranzani OT, Hammond N, **Devlin JW**, et al. Use of dexmedetomidine for sedation in mechanically ventilated adult ICU patients: a rapid practice guideline. *Intensive Care Med* 2022; 48(7):801-810.
136. Lewis K, Alshamsi F, Carayannopoulos KL, Granholm A, Picicaru J, Al Duhailib Z, Chaudhuri D, Spatafora L, Yuan Y, Centofanti J, Spence J, Rochweg B, Perri D, Needham DM, Holbrook A, **Devlin JW**, et al. Dexmedetomidine vs other sedation strategies in critically ill mechanically ventilated adults: a systematic review and meta-analysis of randomized trials. *Intensive Care Med* 2022; 48(7): 811-840.
135. Dionne J, Mbuagbaw L, **Devlin JW**, et al. Diarrhea during critical illness: a multicenter cohort study. *Intensive Care Med* 2022; 48(5): 57-579.
134. Duprey MS, Allison H, Garpestad E, Riselli AM, Faugno A, Anketell E, **Devlin JW**. Naloxegol to prevent constipation in critically ill adults receiving opioids: a randomized, double-blind, placebo-controlled trial. *Crit Care Research Practice* 2022;7541378.
133. Duprey MS, **Devlin JW**, Griffith JL, Trivison TG, Briesacher BA, Jones R, Sacsynski JS, Schmitt EM, Gou Y, Marcantonio ER, Inouye SK. Association between perioperative medication use and post-operative delirium and cognition in older adults undergoing elective non-cardiac surgery. *Anesth Analg* 2022; 134(6):1154-1163.
132. Briesacher BA, Olivieri-Mui BL, Koethe B, Sacsynski JS, Fick DJ, **Devlin JW**, Marcantonio EM. Psychoactive prescribing after delirium screening in skilled nursing facilities. *J Am Geriatrics Soc* 2022; 70(5):1517-1524.
131. Sutton S, McCrobie T, Kovacevic MR, Dube KM, Szumita PM, Herod K, Bezio A, Choi H, Duprey MS, Zeballos J, **Devlin JW**. Impact of the 2018 SCCM PADIS guidelines on non-opioid analgesic use and related outcomes in critically ill adults after major surgery. *Crit Care Explor* 2021; 3(10):e0564.
130. Wu TT, Ko S, Kooken R, Zegers M van den Boogaard, **Devlin JW**. Exploring ketamine analgosedation use and its effect on incident delirium in critically ill adults *Crit Care Explor* 2021; 28:e0544.

129. Wu TT, **Devlin JW**, Zegers M, Griffith J, Kooken R, Van den Boogaard M. Association between social determinants of health and delirium in critically ill adults. *Crit Care Explor* 2021; 3(9):e0532
128. Louzon PR, Wu TT, Bolton D, Bricker K, Ali F, **Devlin JW**. Sleep documentation by ICU clinicians: prevalence, predictors and agreement with sleep quality and duration. *Intensive Crit Care Nurs* 2021; 67:103115
127. Duprey MS, Dijkstra-Kersten SMA, Zaal IJ, Briesacher BA, Saczynski JS, Griffith, JL, **Devlin JW**, Slooter AJC. Opioid use increases the risk of delirium independently of pain in critically ill adults. *Am J Respir Crit Care Med* 2021;204(5):566-572
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5. Clemmer, T.P., Wallace, J.C., Spuhler, V.J., Bailey, P.P., & **Devlin, J.W.** (2000). Origins of the Motor Activity Assessment Scale score: A multi-institutional process. *Critical Care Medicine* 28, 3124.
4. **Devlin, J.W.** (2000). The role of low molecular weight heparin for DVT prophylaxis in acutely ill medical patients. *Journal of Informed Pharmacotherapy* 2000; 3, 300-308.
3. **Devlin, J.W.**, Bailey, E.M., & Zarowitz, B.J. (1997). Administration of amphotericin B in lipid emulsion. *Critical Care Medicine*, 25, 892.
2. **Devlin, J.W.**, Wass, H., & Waters, I.A. (1994). Fludarabine associated pulmonary hypersensitivity: a report of two cases. *Canadian Journal of Hospital Pharmacy*, 47, 125-127.
1. **Devlin, J.W.**, Bayliff, C.D., & Paterson, N.A.M. (1990). Benzodiazepine withdrawal masquerading as steroid psychosis. *Canadian Journal of Hospital Pharmacy*, 43, 134-136.

Non-refereed Articles

6. **Devlin JW.** (2012). Optimizing strategies to reduce oversedation and improve cognitive and functional outcome in the critically ill. *Intensive Care Times*. (May)

5. Devlin, J.W. (2009). ICU delirium recognition, prevention and treatment electronic protocol. VSICU (Phillips Electronic ICU Systems) (October)
4. Gesin, G., **Devlin, J.W.** (2007) Strategies associated with the successful development and implementation of an ICU sedation algorithm. *Critical Care Connections* (December).
3. **Devlin, J.W.** (2003). Strategies to minimize antimicrobial resistance in the ICU: The role of the pharmacist. *Critical Care Connections*. (August).
2. **Devlin, J.W.**, & Sahloff, E.G. (2002). ICU Sedation: Optimizing patient outcomes without compromising ability to wean from mechanical ventilation. Proceedings from the 3rd Mid-America Critical Care Symposium. *Pharmacy Practice News*, (suppl) 11, 13-15.
1. **Devlin, J.W.**, & Roberts, K. (2001). Optimizing acid suppressive therapy in acutely ill patients: the role of proton pump inhibitors for the prevention and treatment of upper gastrointestinal bleeding. Powerpak. (July)

Books and Chapters

Editor

1. Sleep in Critical Illness: Physiology, Associated Outcomes, and its Potential Role in Recovery (2022). Weinhouse J, **Devlin JW** (Eds). Bern-Switzerland, Springer-Nature.

Author

32. Skrobik Y, **Devlin JW** (2022). Sleep Disruption and Its Relationship with Delirium: Clinical Perspectives. In Weinhouse J, Devlin JW (Eds). Sleep in Critical Illness: Physiology, Associated Outcomes, and Its Potential Role in Recovery Bern-Switzerland, Springer-Nature. 1st ed).
31. Wu TT, **Devlin JW** (2021). Delirium and Disrupted Sleep in Critically Ill Adults. In Erstad B (Ed). Critical Care Pharmacotherapy. Kansas City, MO, American College of Clinical Pharmacy. 2nd ed.
30. **Devlin JW**, Szumita P (2021). Analgesia-first sedation and non-opioid multimodal analgesia in the intensive care unit. In *Preedy - The Neuroscience of Pain: Features and Assessments of Pain, Anesthesia, and Analgesia*. xx (Eds). London, UK, Elsevier.
29. Stollings J, Szumita P, **Devlin JW**. (2020) C: Choice of Medication. In: Posa P, Singh J, Stolling J (Eds). *ICU Liberation* (2nd ed). Chicago, IL: Society of Critical Care Medicine.
28. **Devlin, J.W.**, Nolin T. (2019). Acid-base disorders. In: J.T. DiPiro, R.L. Talbert, G.C. Yee, G.R. Matzke, B.G. Wells & L.M. Posey (Eds). *Pharmacotherapy: The pathophysiologic basis of disease*. (11th ed.). New York, NY: McGraw-Hill.
27. van den Boogaard M, **Devlin JW**. (2019) Prediction models for delirium in critically ill adults. In: Pandharipande PP, Ely EW, Hughes C (Eds). Delirium. Berlin Germany, Springer, 1st ed.
26. **Devlin, J.W.**, Barletta, J.F. (2018) *Geriatric critical care pharmacology*. In: *Rosenbaum S, Shamsuddin Akhtar, S* (Eds) Principles of Geriatric Critical Care. Cambridge UK: Cambridge University Press, 1st ed.
25. Bouwmeester, C., **Devlin JW**. (2018) Medication assessment in older adults. In: Fulmer T (Ed). Handbook of Geriatric Medicine. Burlington MA. Jones and Bartlett, 2nd ed.
24. Patel M, **Devlin, JW** (2016) Sleep and delirium in the critically ill. In: Boucher B, (Ed), Critical care self-assessment program. Kansas City, American College of Clinical Pharmacy, 1st ed.
23. **Devlin, J.W.** (2016) Delirium in critically ill adults. In Erstad B (Ed). Critical care pharmacotherapy. Kansas City, MO, American College of Clinical Pharmacy. 1st ed.
22. **Devlin, J.W.** (2016). Acid-base disorders. In: J.T. DiPiro, R.L. Talbert, G.C. Yee, G.R. Matzke, B.G. Wells & L.M. Posey (Eds). *Pharmacotherapy: The pathophysiologic basis of disease*. (10th ed.). New York, NY: McGraw-Hill.
21. **Devlin J.W.** (2014). Delirium. In: Erstad BL (Ed). *Critical Care Pharmacotherapy*. Kansas City. American College of Clinical Pharmacy. 1st ed.
20. **Devlin, J.W.**, Matzke, G. (2013). Acid-base disorders. In: J.T. DiPiro, R.L. Talbert, G.C. Yee, G.R. Matzke, B.G. Wells & L.M. Posey (Eds). *Pharmacotherapy: The pathophysiologic basis of disease*. (9th ed.). New York, NY: McGraw-Hill.
19. Lewin, J.J., **Devlin, J.W.**. (2012) Critical Care Pharmacy Practice. In: University of the Sciences in Philadelphia (Ed). Remington: The Science and Practice of Pharmacy. 22nd ed. Philadelphia.
18. **Devlin J.W.**, Fraser GL, Riker RR. (2011). Drug-induced coma and delirium. In: J. Papadopoulos, B. Cooper, S. Kane-Gill, S. Mallow-Corbett, J. Barletta (Eds). *Drug-Induced Complications in the Critically Ill Patient: A Guide for Recognition and Treatment*. Society of Critical Care Medicine. (1st ed.). Chicago.
17. **Devlin, J.W.**, Matzke, G. (2011). Acid-base disorders. In: J.T. DiPiro, R.L. Talbert, G.C. Yee, G.R. Matzke, B.G. Wells & L.M. Posey (Eds). *Pharmacotherapy: The pathophysiologic basis of disease*. (8th ed.). New York, NY: McGraw-Hill.

16. **Devlin, J.W.** (2011). Sedatives. In S. Kane-Gill, J.F. Dasta (Eds). High Risk Medications in the Critically Ill. (1st ed.). New York: Springer.
15. **Devlin, J.W.** (2009). Peptic ulcer disease. In: M.A. Chisholm, T.L. Schwinghammer & B.G. Wells (Eds.) *Pharmacotherapy principles and practice*. (2nd Ed). New York, NY: McGraw-Hill.
14. **Devlin, J.W.** & Barletta, J.F. (2008). Principles of drug dosing in the critically ill. In: J.E. Parillo & J.E. Dellinger (Eds). *Critical care medicine: Principles of diagnosis and management in the adult*. (3rd ed). Philadelphia, PA: Elsevier.
13. **Devlin, J.W.**, Matzke, G. & (2008). Acid-base disorders. In: J.T. DiPiro, R.L.Talbert, G.C. Yee, G.R. Matzke, B.G. Wells & L.M. Posey (Eds). *Pharmacotherapy: The pathophysiologic basis of disease*. (7th ed.). New York, NY: McGraw-Hill.
12. Kanji, S. & **Devlin, J.W.** (2008). Antimicrobial prophylaxis in surgery. In: J.T. DiPiro, R.L.Talbert, G.C. Yee, G.R. Matzke, B.G. Wells & L.M. Posey (Eds). *Pharmacotherapy: The pathophysiologic basis of disease*. (7th ed.). New York, NY: McGraw-Hill
11. **Devlin, J.W.** (2008). Peptic ulcer disease: The pain of it all. In: T. Swinghammer (Ed). Pharmacotherapy casebook. (7th ed.) New York, NY: McGraw-Hill.
10. Fong, J.J. & **Devlin, J.W.** (2007). Peptic ulcer disease. In: M.A. Chisholm, T.L. Schwinghammer & B.G. Wells (Eds.) *Pharmacotherapy principles and practice*. (1st Ed). New York, NY: McGraw-Hill.
9. Kanji, S. & **Devlin, J.W.** (2005). Antimicrobial prophylaxis in surgery. In: J.T. DiPiro, R.L.Talbert, G.C. Yee, G.R. Matzke, B.G. Wells & L.M. Posey (Eds). *Pharmacotherapy: The pathophysiologic basis of disease*. (6th ed., pp. 2217-2230). New York, NY: McGraw-Hill.
8. **Devlin, J.W.** & Kanji, S.(2002). Antimicrobial prophylaxis in surgery. In: J.T. DiPiro, R.L. Talbert, G.C. Yee, G.R. Matzke, B.G. Wells & L.M. Posey (Eds). *Pharmacotherapy: The pathophysiologic basis of disease*. (5th ed., pp. 2111-2123). Stamford, CT: Appleton & Lange.
7. **Devlin, J.W.** (2001). Critical appraisal of meta-analysis. In: R. Slaughter & D. Edwards (Eds.). *Evaluating drug literature: A statistical approach*. (1st ed., pp. 229-248). New York, NY: McGraw-Hill.
6. Kanji, S. & **Devlin, J.W.** (2001). Digoxin. In J.A. Kruse (Ed.). *The Saunders manual of critical care*. (2nd ed., pp. 626-629). Philadelphia, PA: WB Saunders.
5. Kanji, S. & **Devlin, J.W.** (2001). Digoxin overdose. In J.A. Kruse (Ed.). *The Saunders manual of critical care*. (2nd ed., pp. 229-233). Philadelphia, PA: WB Saunders.
4. **Devlin, J.W.** (2001). Neuromuscular blockers. In J.A. Kruse (Ed.). *The Saunders manual of critical care*. (2nd ed., pp.597-602). Philadelphia, PA: WB Saunders.
3. **Devlin, J.W.** (2001). Narcotic agonists and antagonists. In J.A. Kruse (Ed.). *The Saunders manual of critical care*. (2nded., pp. 602-605). Philadelphia, PA: WB Saunders.
2. **Devlin, J.W.** (2001). Acid-inhibiting agents and sucralfate. In J.A. Kruse (Ed.). *The Saunders manual of critical care*. (2nd ed., pp. 593-597). Philadelphia, PA: WB Saunders.
1. **Devlin, J.W.**, & Zarowitz, B.J.(1999). Alterations in drug disposition in the elderly. In S.M. Ayres, A. Grenvik & W. Shoemaker (Eds). *Textbook of critical care*. (4th ed., pp. 991-1000). Philadelphia, PA WB Saunders.

Presentations

Refereed Original Research Conference Presentations

International

22. Hosie A, Agar M, Ries N, Hepworth A, Sanders R, Kramer K, Evered L, Ma A, **Devlin JW**. [November 2025]. *Ethical processes are poorly reported in delirium intervention trials: A rapid review of 51 trials*. Presented at the 2025 Australasian Ethics Network Annual Meeting, Sydney Australia.
21. Hume L, Young D, Ludbrook G, **Devlin JW**, McKenzie C [October 2025]. Comparing opioid exposure and associated risk factors in adult patients admitted to ICU or HDU following right hemicolectomy. Presented at the 29th Annual Meeting of the European Society of Intensive Care Medicine, Munich, Germany.
20. Burns KEA, Wong J, Rizvi L, Lafreniere-Roula M, Thorpe K, **Devlin JW**, et al. [October 2024]. *Frequency of Screening and Spontaneous Breathing Trial Technique (FAST) weaning trial*. Presented at the 28th Annual Meeting of the European Society of Intensive Care Medicine, Barcelona, Spain.
19. Smit L, Slooter A, **Devlin JW**, et al. [October 2021] *Efficacy of haloperidol to decrease the burden of Delirium In adult Critically ill patients (EuRIDICE): a randomized clinical trial*. Presented at the 24th Annual Meeting of the European Society of Intensive Care Medicine, Copenhagen, DE

18. Duprey MS, Skobik Y, **Devlin JW**. [November 2018]. *Association between sleep quality and delirium occurrence in critically ill adults*. Presented at the 12th European Delirium Association Annual Meeting. Utrecht, NL
17. van der Jagt M, Hunfeld NGM, Trogrlic Z, **Devlin JW**, et al. [October 2017] Efficacy of haloperidol to decrease the burden of delirium in adult critically ill patients (EURIDICE): A prospective randomized multi-center double-blind, placebo-controlled clinical trial. Presented at the 30th Annual Meeting of the European Society of Intensive Care Medicine, Vienna, Austria.
16. N.G.M. Hunfeld, Z. Trogrlic, S.E. Ladage, R.J. Osse, B.C.P. Koch, W. Rietdijk, **J.W. Devlin**, M. van der Jagt [October 2016] *Relationship between trough haloperidol concentrations and clinical response in critically ill adults with delirium who are managed with a scheduled IV haloperidol protocol*. Presented at the 29th Annual Meeting of the European Society of Intensive Care Medicine, Milan, Italy.
15. L Rose, L Burry, R Mallick, E Luk, Cook D, Fergusson D, Meade M, Herridge M, Dodek P, Burns K, Granton J, Ferguson N, **Devlin JW**, Steinberg M, Tanios M, Fowler R, Jacka M, Olafson K, Skrobik Y, S Mehta [October 2014] *Factors associated with restraint use in the SLEAP trial: a multicenter randomized trial comparing protocolized sedation with daily sedation interruption versus protocolized sedation alone in mechanically ventilated adults*. Accepted for presentation at the 27th Annual Meeting of the European Society of Intensive Care Medicine, Barcelona, Spain.
14. Hazelbag, M., Zaal, I.J., Slooter, A.J.C. **Devlin, JW**, Groenwold. RHH. [July 2014] *Inverse probability weighting estimation of marginal structural models when evaluating causality during continuous benzodiazepine exposure in the critically ill*. Accepted for presentation at the Netherlands Epidemiological Society Congress. Amsterdam, NL.
13. L Burry, D Cook, M Meade, R Mallick, D Fergusson, M Herridge, M Steinberg, J Granton, N Ferguson, **JW Devlin**, M Tanios, P Dodek, R Fowler, K Burns, M Jacka, K Olafson, S Reynolds, S Keenan, Y Skrobik, and, S Mehta, for the SLEAP Investigators and the Canadian Critical Care Trials Group [November 2013] Recall of ICU stay in mechanically ventilated patients managed with a sedation protocol or a sedation protocol with daily interruption. Presented at the 2013 Critical Care Forum, Toronto, Canada.
12. Mehta, S., Cook, D., Meade, M., Mallick, R., Fergusson, N. Herridge, M., Steinberg, M., Granton, J., Ferguson, N., **Devlin, J.**, Tanios, M., Dodek, P., Fowler, R., Burns, K., Jacka, M., Olafson, K., Keenan, S., Reynolds, S., Skrobik, Y., Burry, L., the SLEAP Investigators and the Canadian Critical Care Trials Group. [2013, October] *Recall of ICU stay in mechanically ventilated patients managed with a sedation protocol or a sedation protocol with daily interruption: results of the SLEAP multicenter randomized trial*. Presented at the 26th Annual Meeting of the European Society of Intensive Care Medicine. Paris, France
11. Mehta, S., **Devlin, J.W.**, Skrobik, Y., Meade, M., Cook, D., Fergusson, D., Steinberg, M., Granton, J. Ferguson, N., Tanios, M., Dodek, P., Fowler, R., Burns, K., Jacka, M., Olafson, K., Keenan, S., Reynolds, S., Kutsogiannis, J., Mallick, R., & Burry, L. for the SLEAP Investigators and the Canadian Critical Care Trials Group [2012, October] *Delirium, sub-syndromal delirium, antipsychotic use and associated clinical outcomes in critically ill mechanically ventilated patients enrolled in the SLEAP multicenter, randomized trial*. Accepted for presentation at the 25th Annual Meeting of the European Society of the Intensive Care Medicine, Lisbon, Portugal October.
10. Burry, L., Steinberg M., Rose, L. Kim, S., **Devlin, J.W.**, Ashley, B.J., Smith, O. Poretta K. Lee Y, Harvey J., Brown, M., Cheema, P., Wong, Z., & Mehta, S. for the SLEAP Investigators and Canadian Critical Care Trials Group. [2011, October] *Clinicians' perspectives on the use of a sedation protocol or daily sedative interruption in mechanically ventilated patients enrolled in a multicenter sedation trial*. Presented at the 24th Annual Meeting of the European Society of the Intensive Care Medicine, Berlin, Germany.
9. Kanji, S., Betancourt, M., Kruse, J.A., & **Devlin, J.W.** [2002, September]. *Validating the use of ICD-9 based search strategies to identify patients with severe sepsis who may be candidates for drotrecogin alfa (activated) therapy*. Platform presented at the European Society of Intensive Care Medicine's Annual Congress, Barcelona, Spain.
8. Betancourt, M., McKinnon, P.S., Kanji, S., Bach, D., Massanari, R.M. & **Devlin, J.W.** [2002, September]. *Impact of the number of failed organs on the cost-effectiveness of drotrecogin alfa (activated)*. Poster presented at the European Society of Intensive Care Medicine's Annual Congress, Barcelona, Spain.
7. **Devlin, J.W.**, Boleski, G., Mlynarek, M., Nerenz, D., Peterson, E., Horst, H.M. & Zarowitz, B.J. [1998, February]. *The Motor Activity Assessment Scale: A valid and reliable sedation scale for use in adult, mechanically ventilated, surgical ICU patients*. Poster presented at the Canadian Society of Hospital Pharmacist's 1998 Professional Practice Conference, Toronto, ON.
6. **Devlin, J.W.** [1996, June]. *Impact of sedation guidelines on length of mechanical ventilation and drug cost*. Platform presented at the 1996 McMaster University Critical Care Medicine Research Day, Hamilton, ON.
5. **Devlin, J.W.**, Trepanier, E., Agro, K.A., Makarechian, N., Einarson, T. & Koren, G. [2005, August]. *The relationship between moderate alcohol consumption during pregnancy and spontaneous abortion, stillbirth and premature birth: A meta-analysis*. Presented at the 11th International Conference on Pharmacoepidemiology, Montreal, PQ.
4. **Devlin, J.W.**, McKelvie, G. & Bachand, R. [1992, February]. *Developing a new documentation form for clinical*

- statistics: solving drug-related problems and the effect on drug cost.* Poster presented at the Canadian Society of Hospital Pharmacist's 1992 Annual Professional Practice Conference, Toronto, ON
3. **Devlin, J.W.**, Bayliff, C.D. & Bellamy, N. [1990, February]. *Concurrent allopurinol utilization review.* Poster presented at the Canadian Society of Hospital Pharmacist's 1990 Annual Professional Practice Conference, Toronto, ON.
2. **Devlin, J.W.**, Bayliff, C.D. & Paterson, N.A.M. [1989, January]. *Drug-induced psychosis secondary to benzodiazepine withdrawal masquerading as steroid psychosis.* Poster presented at the Canadian Society of Hospital Pharmacist's 1989 Annual Professional Practice Conference on January 27, 1989, Toronto, ON.)
1. **Devlin, J.W.**, Irvine-Meek, J. & Mann, J. [1988, August]. *Unit dose packaging: a survey of Pharmaceutical manufacturers.* Poster presented at the Canadian Society of Hospital Pharmacist's 1988 Annual Meeting, Toronto, ON.

National

144. **Devlin JW**, Wu TT, Bienvenu OJ, Smith LH, Saczynski JS, Cavanaugh R. *Impact of ARDS on post-ICU psychoactive medication prescribing without a justifying diagnosis.* Accepted for presentation at the Society of Critical Care Medicine's 2026 Congress, Chicago, IL
143. Mahmud M, Wild AJ, Moreland SDm Onur MO, Stollings JL, Hughes CG, Raman R, **Devlin JW**, Garpestad E, Girard TD, Ely EW, Pandharipande PP. *Age effect on sedation with dexmedetomidine vs propofol in mechanically ventilated septic patients.* Accepted for presentation at the Society of Critical Care Medicine's 2026 Congress, Chicago, IL.
142. Wu TT, Bienvenu OJ, Smith LH, Saczynski JS, Cavanaugh R, Devlin JW. *Psychoactive medication prescribing after critical illness in American adults not justified by a supporting diagnosis.* Presented at the American College of Clinical Pharmacy's 2025 Annual Meeting, Minneapolis, MN.
141. Wu TT, Smith C, Szumita PM, **Devlin JW**. *Multimodal analgesic prescribing in U.S. adults after an ICU hospitalization for major surgery.* Presented at the Society of Critical Care Medicine's 2025 Congress, Orlando, FL.
140. Wu TT, Cullen C, O'Neil N, Vigorito J, Cavanaugh R, Jacobi J, **Devlin JW**. *Antidiabetic agent (ADA) prescribing patterns post-hospital discharge for critically ill adults.* Presented at the Society of Critical Care Medicine's 2025 Congress, Orlando, FL.
139. Sikora A, Zhiang T, Chen XY, Smith SE, **Devlin JW**, Murphy DE, Kamaleswaran R, Murray BP. *Enhancing the APACHE II Score: addition of pharmacophenotypes to predict fluid overload.* Presented at the Society of Critical Care Medicine's 2025 Congress, Orlando, FL.
138. Wu TT, McKenzie C, Hsieh W, Nguyen DT, Xie, Minjia, **Devlin JW**. *U.S. opioid prescribing practices after ICU hospitalizations requiring mechanical ventilation.* Presented at the Society of Critical Care Medicine's 2025 Congress, Orlando, FL.
137. Smith SE, Zhao BZ, Deng S, Su Q, Zhang T, Yeshen A, Murphy DE, Murray BP, Kamaleswaran K, **Devlin JW**, Sikora A. *Augmenting mortality prediction with medication data and machine learning models.* Presented at the Society of Critical Care Medicine's 2025 Congress, Orlando, FL.
136. Smith SE, Zhao BZ, Deng S, Su Q, Zhang T, Yeshen A, Murphy DE, Murray BP, Kamaleswaran K, **Devlin JW**, Sikora A. *Machine learning-based prediction of ICU complications using medication data: a validation study.* Presented at the Society of Critical Care Medicine's 2025 Congress, Orlando, FL.
135. Sajjad H, Milewski K, Hoa B, Innarelli E, Wu T, **Devlin JW**. *Development and evaluation of a nocturnal PAD management protocol in mechanically ventilated adults.* Presented at the 2024 American Thoracic Society Annual Meeting. San Diego, CA
134. Wu TT, Smith LH, Vernooij LM, Patel E, **Devlin JW**. *Data missingness reporting and use of methods to address it in critical care cohort studies.* Presented at the Society of Critical Care Medicine's 2024 Congress, Phoenix, AZ.
133. Keats K, Deng S, Chen X, Zhang T, **Devlin JW**, et al. *Association between medication regimen complexity and ICU mortality in a large cohort.* Presented at the Society of Critical Care Medicine's 2024 Congress, Phoenix, AZ.
132. Sikora A, Zhang T, Murphy DJ, Smith SE, Murray B, Kamaleswaran R, Chen X, Buckley M, Rowe S, **Devlin JW**. *Association between medication regimen complexity and ICU mortality in a large cohort.* Presented at the Society of Critical Care Medicine's 2024 Congress, Phoenix, AZ.
131. Wu TT, Lin YS, Smith LH, Slooter AJC, **Devlin JW**. *Comparison of synthetic opioids ± morphine versus morphine-alone on daily probability for extubation in critically ill adults.* Presented at the American College of Clinical Pharmacy's 2023 Annual Meeting, Dallas, Tx.
130. Wu TT, Steiger G, Smith LH, Slooter AJC, **Devlin JW**. *Clonidine is associated with faster first resolution of incident ICU delirium than antipsychotics.* Presented at the American College of Clinical Pharmacy's 2023 Annual Meeting, Dallas, Tx.
129. Sikora A, **Devlin JW**, Zhang T, et al. *Evaluation of medication regimen complexity, severity of illness, and ICU mortality.* Presented at the American College of Clinical Pharmacy's 2023 Annual Meeting, Dallas, Tx.

128. Wu TT, Vernooij LM, Duprey MS, Zaal IJ, Gelinac C, **Devlin JW**, Slooter AJC. Relationship between pain and delirium in critically ill adults. Presented at the 2023 American Delirium Society Annual Meeting. Providence, RI.
127. McInerney D, Wu TT, Weinhouse GL, Wallace B, **Devlin JW**. *Next-night disrupted sleep prediction from clinician notes using weakly supervised learning models*. Presented at the Society of Critical Care Medicine's 2023 Congress. San Francisco, CA.
126. Wu TT, McInerney D, Weinhouse GL, Wallace B, **Devlin JW**. *Predictors of ICU clinician documentation of disrupted sleep in critically ill medical adults*. Presented at the Society of Critical Care Medicine's 2023 Congress. San Francisco, CA.
125. Wu TT, Zegers M, Griffith J, Kooken R, **Devlin JW**, Van den Boogaard M. *Pre-ICU anxiety and depression and the risk of delirium in critically ill adults*. Presented as a NIDUS oral abstract at the 2022 American Delirium Society Annual Meeting. Indianapolis, IN.
124. Zerfas I, Hume N, Wong A, Klein-Fedyshin M, Smithburger P, Buckley M, **Devlin JW**, Kane-Gill S. *Implementation strategies for PAD/PADIS and related ICU outcomes: a systematic review & meta-analysis*. Presented at the Society of Critical Care Medicine's 2022 Congress. San Juan, PR.
123. Dube K, Kovacevic M, Duprey M, Szumita PM, Sutton S, McCrobie T, Zeballos J, **Devlin JW**. *Association between non-opioid analgesic use and opioid exposure in critically ill surgical adults*. Presented at the Society of Critical Care Medicine's 2022 Congress. San Juan, PR.
122. Wu TT, **Devlin JW**, Zegers M, Griffith J, Kooken R, Van den Boogaard M. *Pre-ICU anxiety and depression and the risk of delirium in critically ill adults*. Presented at the Society of Critical Care Medicine's 2022 Congress. San Juan, PR.
121. Duprey MS, Vernooij L, Dijkstra-Kersten SMA, Zaal, MD IJ, Gélinas C, **Devlin JW**, Slooter AJC. *The complex interplay between pain and delirium in critically ill adults*. Presented at the Society of Critical Care Medicine's 2022 Congress. San Juan, PR.
120. **Devlin JW**, Train SE, Burns KEA, Massaro A, Vassaur J, Selvan K, Kress JP, Erstad B. *Critical care physician attitudes and perceptions of neuromuscular blocker infusions in ARDS*. Presented at the Society of Critical Care Medicine's 2022 Congress. San Juan, PR.
119. Train SE, Erstad B, Burns KEA, Massaro A, Vassaur J, Selvan K, Kress JP, **Devlin JW**. *Critical care pharmacist attitudes and perceptions of neuromuscular blocker infusions in ARDS*. Presented at the Society of Critical Care Medicine's 2022 Congress. San Juan, PR.
118. Duprey MS, Dijkstra-Kersten SMA, Zaal IJ, **Devlin JW**, Slooter AJC. *Pain is not a strong risk factor for delirium in critically ill adults*. Accepted for presentation as a NIDUS oral abstract at the 2021 American Delirium Society Annual Meeting (virtual meeting).
117. Duprey MS, **Devlin JW**, Griffith JL, Travison TG, Briesacher BA, Jones R, Saczynski J, Schmitt EM, Gou Y, Marcantonio ER, Inouye SK. *Association between perioperative medication use and post-operative delirium and cognition in older adults undergoing elective non-cardiac surgery*. Accepted for presentation as a NIDUS oral abstract at the 2021 American Delirium Society Annual Meeting (virtual meeting).
116. Zerfas I, Hume N, **Devlin JW**, Klein-Fedyshin M, Kane-Gill S. *Systematic review of implementation strategies for PAD/PADIS guideline application in ICU practice*. Accepted for presentation as the 2020 AHSP Midyear Clinical Meeting (virtual meeting).
115. Duprey M, Dijkstra-Kersten S, Zaal I, Briesacher B, Saczynski J, Griffith J, **Devlin JW**, Slooter AJC. *Association between opioid use and daily delirium risk in critically ill adults*. Accepted for presentation at the 2020 Annual Meeting of the American College of Clinical Pharmacy (virtual meeting) (**winner – student research award**).
114. Nguyen M, Tanios M, **Devlin JW**. *The association between coma, days on mechanical ventilation (MV) and 28-day mortality for adults managed with analgesia-first sedation or traditional sedation methods*. Accepted for presentation at the 2020 American College of Chest Physicians Annual Congress (virtual meeting).
113. Burns K, Rizvi L, Seely AJ, Cook DJ, Mayette M, Tanios M, Rochweg B, **Devlin JW**, et al. for the Canadian Critical Care Trials Group. *Impact of frailty on clinical outcomes in the FAST trial*. Accepted for presentation at the 2020 American Thoracic Society Annual Meeting. Philadelphia, PA
112. Lewis K, Piticarau J, Carayannopoulos L, Alshamsi F, Spence J, Rochweg B, Perri D, Karachi T, Hylander M, Needham D, Soth M, Holbrook A, **Devlin JW**, et al, for the Guide Group. *Dexmedetomidine compared to other sedatives or placebo in critically ill mechanically ventilated adults: a systematic review and meta-analysis of randomized controlled trials*. Accepted for presentation at the 2020 American Thoracic Society Annual Meeting. Philadelphia, PA
111. Duprey MS, **Devlin JW**, van der Hoeven JG, Pickkers P, Briesacher BA, Saczynski JS, Griffith JL, van den Boogaard M. *Association between cumulative haloperidol exposure and 28- and 90-day mortality in critically ill adults*. Accepted for presentation as research star platform at the Society of Critical Care Medicine's 2020 Congress. Orlando, FL.
110. Duprey MS, Skrobik Y, **Devlin JW**. *Association between sleep quality and delirium occurrence in critically ill adults: a secondary analysis of a randomized controlled trial*. Accepted for presentation as the Society of Critical Care Medicine's 2020 Congress. Orlando, FL.

109. Duprey MS, van den Boogaard M, van der Hoeven JG, Pickkers P, Devlin JW. *Association between cumulative haloperidol dose and 28- and 90-day mortality in critically ill adults: post-hoc analysis of the REDUCE study*. Accepted for presentation as a platform in the NIA-NIDUS session at the 9th Annual ADS Meeting, Boston, MA [June 2019].
108. Duprey MS, Skrobik Y, Devlin JW. *Association between sleep quality and delirium occurrence in critically ill adults: a secondary analysis of a randomized controlled trial*. Accepted for presentation as a poster at the 9th Annual ADS Meeting, Boston, MA [June 2019].
107. Briesacher BA, Mui BL, **Devlin JW**, Koethe B. *Validity of nursing home self-reported antipsychotic prescribing*. Accepted for presentation at the 2019 Academy Health Annual Research Meeting. Seattle, WA.
106. Wheeler K, Martin J, Centofanti J, Gelinac C, Szumita P, **Devlin JW**, et al. *Opioid adjuvant analgesic use in the critically ill: A systematic review and meta-analysis*. Accepted for presentation at the 2019 American Thoracic Society Annual Meeting. Dallas, TX
105. Hammad R, Honarmand K, Le J, Mohan S, Rochweg B, Skobik Y, **Devlin JW**, Bosma, K. *Systematic review of risk factors associated with disrupted sleep in critically ill patients*. Accepted for presentation at the 2019 American Thoracic Society Annual Meeting. Dallas, TX
104. Duprey MS, Brooks K, Khalil S, Moreno JL, Wakeman SE, Roberts RJ, Jacobsen J, **Devlin JW**. *Self-reported substance/psychoactive medication use vs. urine toxicology screen for OUD admissions*. Accepted for presentation at the Society of Critical Care Medicine's 2019 Critical Care Congress, San Diego, CA
103. **Devlin JW**, Duprey MS, Skrobik Y, Weinhouse G. *ICU sleep management practices across 6 states prior to the 2018 SCCM PADIS practice guideline release*. Presented at the Society of Critical Care Medicine's 2019 Critical Care Congress, San Diego, CA
102. Hamidi A, Roberts R, Duprey M, Weinhouse G, Szumita P, Delgado J, Dube J, Choi M, **Devlin JW**. *Documented Sleep quality and scheduled sleep aid medication response in critically ill adults*. Presented at the Society of Critical Care Medicine's 2019 Critical Care Congress, San Diego, CA
101. Moreno J, Duprey M, Wakeman S, Roberts R, **Devlin JW**. *Predictors for 30-day and 90-day hospital readmission among patients with opioid use disorder*. Presented at the 2018 Annual Meeting of the American College of Clinical Pharmacy, Seattle, WA
100. Tanius MA, Nguyen HM, Park H, Mehta S, Epstein SK, Flores G, Youseff F, Beltran A, Sidhom RM, Sehgal A, Leo JD, **Devlin JW**. *Randomized comparison of analgesia-first sedation, protocol-directed sedation or protocol-directed sedation with daily interruption in mechanically ventilated adults: a pilot study*. Presented as a platform presentation at the American Thoracic Society 2018 Annual Meeting. San Diego, CA.
99. Roberts RJ, Duprey MS, Kumar A, **Devlin JW**. *Association between initial antibiotic sequence and mortality in septic shock*. Presented at the Society of Critical Care Medicine's 2018 Critical Care Congress, San Antonio TX
98. **Devlin JW**, Duprey MS, Moreno J, Roberts, R. *Epidemiology, opioid exposure & outcomes for ICU patients admitted with a known opioid use disorder*. Presented at the Society of Critical Care Medicine's 2018 Critical Care Congress, San Antonio TX
97. Duprey MS, van Boorgard M, van der Hoeven J, Pickkers P, **Devlin JW**. *Incident ICU delirium, its duration, & coma/delirium days: association with 28- and 90-day mortality*. Presented at the Society of Critical Care Medicine's 2018 Critical Care Congress, San Antonio TX
96. M. Duprey, S. Shah, A. Slooter, R. D. Stevens, **Devlin JW**. *The taxonomy of delirium and encephalopathy in research studies: a scoping review of 200 articles*. Presented at the American Delirium Society's 2017 Annual Meeting. Nashville, TN.
95. Skrobik Y, **Devlin JW**, Duprey M, Hill NS. *Nocturnal dexmedetomidine infusion effects on delirium and sleep quality in critically ill adults: a randomised, placebo-controlled trial*. Presented as a platform presentation at the American Thoracic Society 2017 Annual Meeting, Washington, DC.
94. Duprey MS, Al-Qadheeb N, Roberts R, Skrobik G, **Devlin JW**. *QTc interval prolongation with low-dose IV haloperidol: post-hoc analysis of a placebo-control trial*. Presented at the Society of Critical Care Medicine's 2017 Critical Care Congress, Honolulu, HI.
93. Curtis N, Corapi J, Roberts R, **Devlin JW**. *Impact of parenteral vasopressin generic rebranding on clinician practices and perceptions*. Accepted for presentation at the Society of Critical Care Medicine's 2017 Critical Care Congress, Honolulu, HI.
92. Roberts RJ, Gloria Vasquez-Grande, Ehsan Koohpayehzadeh Esfahani, Amarnath Pisipati, Kumar A, **Devlin JW**. *Impact of antibiotic initiation sequence on outcomes in patients with septic shock*. Accepted for presentation at the Society of Critical Care Medicine's 2017 Critical Care Congress, Honolulu, HI.
91. Oliveri-Mui BL, **Devlin JW**, Ochoa A, Schenck D, Briesacher B. *Perceptions vs. evidence: therapeutic substitutes for antipsychotics in patients with dementia in long term care*. Presented at 2016 Academy Health Meeting, Boston, MA
90. Schenck D, **Devlin JW**, Mui B, Ochoa A, Briesacher B. *Therapeutic substitutes for antipsychotics in adults with*

- dementia in long term care facilities: preliminary results from an expert panel survey.* Accepted for presentation at the American Society of Health System Pharmacy 2016 Midyear Meeting, New Orleans, LA
89. Dzierba A, Smithburger P, Devlin J.W., Swan J, Kane Gill, S. *A national evaluation of ICU delirium identification, prevention and treatment practices.* Accepted for presentation at the Society of Critical Care Medicine's 2016 Critical Care Congress, Orlando, FL.
88. **Devlin JW**, Dzierba A, Roberts R, Muir J, Alhammad A, Clark J, Ruthazer R, Schumaker R. *Effect of ECMO use on the incidence of severe thrombocytopenia during severe ARDS* Accepted for presentation at the Society of Critical Care Medicine's 2016 Critical Care Congress, Orlando, FL.
87. Swanson JM, Shafeeq H, Hammond D, Li C, **Devlin J.W.** *Critical care pharmacy resident research publication: perceptions and practices of residency directors.* Accepted for presentation at the Society of Critical Care Medicine's 2016 Critical Care Congress, Orlando, FL.
86. Shafeeq H, Swanson JM, Hammond D, Li C, **Devlin J.W.** *Critical care pharmacy resident research project publication: practices and perceptions of graduates.* Accepted for presentation at the Society of Critical Care Medicine's 2016 Critical Care Congress, Orlando, FL.
85. Bailey BJ, Painter JT, **Devlin JW**, et al. for the POLS Group. Perceived motivating factors and barriers for the completion of postgraduate training in American pharmacy students. (Poster number: 2-003) American Society of Health-System Pharmacists Midyear Clinical Meeting. New Orleans, LA, December 7, 2015.
84. Wolters, A.E., Zaal, I.J., Veldhuijzen, D.S., Cremer, O.L., **Devlin, J.W.**, van Dijk, D., Slooter A.J.C. *Anticholinergic drugs and the daily transition to delirium in critically ill patients: a prospective cohort study.* Accepted for presentation at the 5th Annual Meeting of the American Delirium Society, Baltimore, MD.
83. C. Der Nigoghossian, A. Dzierba, J. Etheridge, R. Roberts, J. Muir, D. Brodie, G. Schumaker, **J. W. Devlin.** *Effect of extracorporeal membrane oxygenation use on sedative requirements during severe ARDS acute respiratory.* Presented at the Society of Critical Care Medicine's 2015 Critical Care Congress, Phoenix, AZ.
82. Alhammad, A., Roberts, R., Anketell E., Schumaker, G., Garpestad, E., **Devlin, J.W.** *Impact of Grm+ vs. Grm- antibiotic initiation sequencing on vasopressor requirements in septic shock.* Presented at the Society of Critical Care Medicine's 2015 Critical Care Congress, Phoenix, AZ.
81. Roberts, R., Alhammad, A., Crossley L., Anketell E., Wood, L., Schumaker, G., Garpestad, E., **Devlin, J.W.** *Practices and perceptions of ED and ICU RNs regarding initial IV antibiotic therapy for septic shock.* Presented at the Society of Critical Care Medicine's 2015 Critical Care Congress, Phoenix, AZ.
80. Al-Qadheeb, N.S., Skrobik, Y., Schumaker, G., Pacheco, M., Roberts, R., Ruthazer, R., **Devlin, J.W.** *Preventing ICU subsyndromal delirium conversion to delirium with low-dose IV haloperidol: a double-blind, placebo-controlled pilot study* Presented at the Society of Critical Care Medicine's 2014 Critical Care Congress, San Francisco, CA.
79. Al-Qadheeb, N.S., Skrobik, Y., Schumaker, G., Pacheco, M., Roberts, R., Ruthazer, R., **Devlin, J.W.** *Preventing ICU subsyndromal delirium conversion to delirium with low-dose IV haloperidol: a double-blind, placebo-controlled pilot study.* Presented at the Society of Critical Care Medicine's 2014 Critical Care Congress, San Francisco, CA.
78. Bioc, J., Magee, C., Cucchi, J., Fraser, G., Dasta, J., Edwards R., **Devlin, J.W.** *Cost-effectiveness of benzodiazepine vs. non-benzodiazepine sedation during mechanical ventilation.* Presented at the Society of Critical Care Medicine's 2014 Critical Care Congress, San Francisco, CA.
77. Zaal, I., **Devlin, J.W.**, van der Kooij, A., Klein Klouwenberg, P., Hazelbag, M., Ong, D., Groenwold, R., Slooter, A.. *The association between benzodiazepine use and delirium in the ICU: a prospective cohort study.* Presented at the Society of Critical Care Medicine's 2014 Critical Care Congress, San Francisco, CA.
76. Zaal, I., **Devlin, J.W.**, Slooter, A.. *A systematic review of the risk factors for delirium in the intensive care unit.* Presented at the Society of Critical Care Medicine's 2014 Critical Care Congress, San Francisco, CA.
75. Palan-Lopez R, O'Connor HH, **Devlin JW**, White A, Guarino AJ. Assessing competency of providers in a long-term acute care hospital to evaluate delirium. Accepted for presentation at the 2013 Annual Scientific Meeting of the Gerontological Society of America. New Orleans, LA.
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74. **Devlin, J.W.**, Al-Qadheeb, N.S., Chi, A., Roberts, R., Qawi I., Garpestad E., Logvinenko, T., Hill, N.S., *Efficacy and safety of dexmedetomidine during non-invasive ventilation for patients with acute respiratory failure: A randomized, double-blind, placebo-controlled, pilot study.* Accepted for a platform presentation at the 2013 American Thoracic Society International Conference. Philadelphia, PA
73. Al-Qadheeb, N., Fraser, G., Balk, E., Skrobik, Y., Riker R., Kress, J.P., Whitehead, S., **Devlin, J.W.** *A meta-analysis and meta-regression of randomized, controlled ICU trials with interventions hypothesized to reduce delirium: the relationship between duration of delirium and hospital mortality.* Presented at the Society of Critical Care Medicine's 2013 Critical Care Congress, San Juan, PR.
72. Al-Qadheeb, N., O'Donnell N., Hoffman, K., Dimbil, M., **Devlin, J.W.** *Adverse events associated with IV sedative use and related mortality in the United States over an eight year period.* Presented at the Society of Critical Care Medicine's

2013 Critical Care Congress, San Juan, PR.

71. Rose, L., Maunder, R., Hunter, J., Day, A., Steinburg, M., Herridge, M., **Devlin, J.W.**, Dodek, J.W., Burry, L., Mehta S. for the Canadian Critical Care Trials Group. *Sleep, cognitive and psychological morbidity following sedation protocol and daily sedative interruption vs. sedation protocol alone in critically ill, mechanically ventilated adults (SLEAP-SCP)*.

Presented at the Society of Critical Care Medicine's 2013 Critical Care Congress, San Juan, PR.

70. Fongemie J., Al-Qadheeb, N., Estes, N.A., Roberts, R., Temtanakitpaisan, Y., Ruthazer, R., **Devlin, J.W.** *Agreement between ICU clinicians and electrophysiology cardiologists for the initiation of a QTc-interval prolonging medication in ICU patients with potential risk factors for Torsades de Pointes*. Presented at the Society of Critical Care Medicine's 2013 Critical Care Congress, San Juan, PR.

69. Mehta, S., Burry, L., Cook, D., Steinberg, M., Fergusson D., Hebert P., Herridge, M., Granton, J., Ferguson, N., **Devlin, J.W.**, Tanios, M., Fowler, R., Dodek, P., Burns, K., Jacka, M., Olafson, K., Reynolds, S., Keenan, S., Skrobik, S., Kutsogiannis, J., Antoni, J., Meade, M., for the SLEAP Investigators and Canadian Critical Care Trials Group [2012, May] *SLEAP: A multicenter randomized trial of daily awakening in critically ill patients being managed with a sedation protocol*. Presented as a platform at the 2012 American Thoracic Society International Conference. San Francisco, CA.

68. Al-Qadheeb, N., O'Connor, H., Neidhardt, A., Albizati, M., Joseph, B., Roberts, R., Ruthazer, R., White, A., & **Devlin, J.W.** [2012, May] *Association between use of scheduled antipsychotic therapy during prolonged mechanical ventilation at a long term acute care hospital and related patient outcomes*. Presented at the 2012 American Thoracic Society International Conference. San Francisco, CA.

67. Hoffmeister, J., Al-Qadheeb, N.S., Roberts, N.S., Garpestad, E., Shanahan, K., & **Devlin, J.W.** [2012, May] *Perceptions of medical housestaff and nurses regarding nocturnal physician-nurse interactions surrounding pain, agitation and delirium in the intensive care unit*. Presented at the 2012 American Thoracic Society International Conference. San Francisco, CA.

66. O'Connor, H., Al-Qadheeb, N.S., Joseph, B., White, A., & **Devlin, J.W.** [2012, May] *Agitation during prolonged mechanical ventilation at a long term acute care hospital*. Presented at the 2012 American Thoracic Society International Conference. San Francisco, CA.

65. Hoffmeister, J., Al-Qadheeb, N.S., Roberts, R., Garpestad, R., & **Devlin, J.W.** [2012, February] *Perceptions and practices of on-call medical housestaff to ICU nurse concerns pertaining to pain, agitation and delirium*. Presented at the Society of Critical Care Medicine's 2012 Critical Care Congress, Houston, TX

64. Al-Qadheeb, N.S., Neidhardt, S., Albizati, M., O'Connor, H., Joseph, B., White, A., Roberts, R., Ruthazer, R., & **Devlin, J.W.** [2012, February] *Characterization of scheduled antipsychotic use in mechanically ventilated, long term care acute care patients*. Presented at the Society of Critical Care Medicine's 2012 Critical Care Congress, Houston, TX.

63. Al-Qadheeb, N.S., Neidhardt, S., Albizati, M., O'Connor, H., Joseph, B., White, A., Roberts, R., Ruthazer, R., & **Devlin, J.W.** [2012, February] *Association between use of scheduled antipsychotic therapy in mechanically ventilated long term acute care patients and delirium symptoms, related management strategies and adverse effects: a case-control study*. Presented at the Society of Critical Care Medicine's 2012 Critical Care Congress, Houston, TX.

62. Bhat, S., Roberts, R., Alqadheeb, N., & **Devlin, J.W.** [2011, December] *Impact of multiple, concomitant parenteral drug shortages on intensive care unit prescribing patterns at an academic medical center: a two year analysis*. Presented at the 2011 ASHP Clinical Midyear Meeting. New Orleans, LA.

61. **Devlin, J.W.**, Skrobik, Y., Hinderleider, E., Roberts, R., Fong, J., Riker, R., Ruthazer, R., Hill, N., & Garpestad, E. [2011, October] *Impact of quetiapine on the resolution of individual delirium symptoms in critically ill patients with delirium: a post-hoc analysis of a double-blind, randomized, placebo-controlled pilot study*. Poster presentation at the American College of Clinical Pharmacy's 2011 Annual Meeting. Pittsburgh, PA.

60. Kher, S., Roberts, R.J., Garpestad, E., Epstein, S.K., Howard, H., Kunkel, C., Didomenico, D., Ferguson, A., & **Devlin, J.W.** [2011, May] *Development, implementation and evaluation of an institutional daily awakening and spontaneous breathing trial protocol: a process improvement project*. Poster presentation at the 2011 American Thoracic Society International Conference. Denver, CO.

59. **Devlin, J.W.**, Skrobik, Y., Hinderleider, E., Roberts, R., Fong, J., Riker, R., Ruthazer, R., Hill, N., Garpestad, E. [2011, January] *Impact of quetiapine on the resolution of individual delirium symptoms in critically ill patients with delirium: a double-blind, randomized, placebo-controlled pilot study*. Poster presentation at the Society of Critical Care Medicine's 2011 Critical Care Congress, San Diego, CA.

58. Roberts, R., Chi, A., Grover, A., Newman, M., Bhat, S., Benotti, S., Garpestad, E., Nasraway, S., & **Devlin, J. W.** [2011, January] *Impact of a national propofol shortage on duration of mechanical ventilation at an academic medical center*. Poster presentation at the Society of Critical Care Medicine's 2011 Critical Care Congress, San Diego, CA.

57. **Devlin, J.W.**, Bhat, S., Burke, C., Roberts, R., & Skrobik, Y. [2011, January] *Current critical care pharmacists' perceptions and practices surrounding the treatment of delirium in the intensive care unit*. Poster presentation at the Society of Critical Care Medicine's 2011 Critical Care Congress, San Diego, CA.

56. **Devlin, J.W.**, Bhat, S., Burke, C., Roberts, R., & Skrobik, Y. [2011, January] Current critical care pharmacists' perceptions and practices surrounding the recognition of delirium in the intensive care unit. Poster presentation at the Society of Critical Care Medicine's 2011 Critical Care Congress, San Diego, CA.
55. Lin, A., Russell, B., **Devlin, J.W.**, Norton, H., Evans, S., & Gesin, G. [2011, January] *Impact of using a validated delirium screening tool, with or without a pharmacist and nurse-led delirium education program, on the ability of nurses to recognize delirium in a surgical-trauma ICU.* Platform presentation at the Society of Critical Care Medicine's 2011 Critical Care Congress, San Diego, CA.
54. Roberts, R., Benoit, M., Murphy, L., Schumaker, G., Garpestad, E., & **Devlin, J.W.** [2010 January] *Impact of enteral methadone on the ability to wean continuously-infused fentanyl in critically ill adults.* Poster presentation at the Society of Critical Care Medicine's 2010 Critical Care Congress, Miami, FL
53. **Devlin, J.W.**, Roberts, R., Fong, J.J., Skrobik, Y., Riker R.R., Hill, N.S., & Garpestad, E. [2009, February]. *Efficacy and safety of quetiapine for delirium in the ICU: A randomized, double-blind, placebo-controlled study.* Presented as a platform presentation at the Society of Critical Care Medicine's 2009 Critical Care Congress, Nashville, TN.
52. Roberts, R. Schumaker, G., Fong, J., Barletta, J., Gerlach, T., Voils, S., Kuper, P., Szumita, P., Anger, K., Papadopoulos, S., Grgurich, P., Kendall, E., Xamplas, R., Arpino, P., Ruthazer, R., & **Devlin, J.W.** [2009, February]. *Incidence of the propofol infusion syndrome in critically ill adults.* Poster presentation at the Society of Critical Care Medicine's 2009 Critical Care Congress, Nashville, TN.
51. Roberts, R. Schumaker, G., Fong, J., Barletta, J., Gerlach, T., Voils, S., Kuper, P., Szumita, P., Anger, K., Papadopoulos, S., Grgurich, P., Kendall, E., Xamplas, R., Arpino, P., Ruthazer, R., **Devlin, J.W.** [2009, February]. *Failure of a FDA MEDWATCH-derived scoring system to predict mortality in patients with suspected propofol infusion syndrome.* Poster presentation at the Society of Critical Care Medicine's 2009 Critical Care Congress, Nashville, TN.
50. Roberts, R. de Wit, M., Varney, K., Epstein, S.K., **Devlin J.W.** [2009, February]. *Patient-related factors that predict daily sedation interruption by nurses.* Poster presentation at the Society of Critical Care Medicine's 2009 Critical Care Congress, Nashville, TN.
49. Roberts, R. de Wit, M., Varney, K., Epstein, S.K., **Devlin J.W.** [2009, February]. *Nurse-related factors that predict daily sedation interruption by nurses.* Poster presentation at the Society of Critical Care Medicine's 2009 Critical Care Congress, Nashville, TN.
48. **Devlin, J.W.**, Fong, J.J., Howard, E., McCoy, N., Yasuda, C., Marshall, J., Roberts, [2008, February]. *Nursing practices and perceptions towards delirium assessment in the intensive care unit.* Presented at the Society of Critical Care Medicine's 2008 Critical Care Congress, Honolulu, HI.
47. Fong, J., Sylvia, L., Ruthazer, R., Schumaker, G., KComt, M., **Devlin, J.W.**, [2008, February]. *Predictors of mortality in patients with propofol infusion syndrome.* Presented at the Society of Critical Care Medicine's 2008 Critical Care Congress, Honolulu, HI.
46. Olsen, K.M., **Devlin, J.W.** [2008, February]. *Comparison of oral and intravenous lansoprazole pharmacodynamic response in the critically ill.* Presented at the Society of Critical Care Medicine's 2008 Crit Care Congress, Honolulu, HI.
45. Lancaster, J., Lawrence, K., Fong, J., Doron, S., Garpestad, E., **Devlin, J.W.** [2008, February]. *Impact of an institutional hospital-acquired pneumonia protocol on the appropriateness of antibiotic therapy and patient outcomes.* Presented at the Society of Critical Care Medicine's 2008 Critical Care Congress, Honolulu, HI.
44. **Devlin, J.W.**, Fong, J., Schumaker, G., Ruthazer, R., O'Connor, H. & Garpestad, E. [2007, February]. *Use of a validated delirium assessment tool improves the ability of physicians to recognize delirium in medical intensive care unit (MICU) patients.* Accepted for platform presentation at the Society of Critical Care Medicine's 2007 Critical Care Congress, Orlando, FL.
43. **Devlin, J.W.**, Marquis, F., Riker, R., Bruce, H., Robbins, T., Fong, J., Garpestad, E., Didomenico, D., Yasuda, C. & Skrobik, Y. [2007, February]. *Challenges in recognizing delirium: Impact of scenario-based education on nursing bedside assessment.* Accepted for poster presentation at the Society of Critical Care Medicine's 2007 Critical Care Congress, Orlando, FL.
42. **Devlin, J.W.**, Nava, S., Bahhady, I. & Hill, N. [2007, February]. *Survey of sedation practices for noninvasive positive-pressure ventilation to treat acute respiratory failure.* Accepted for poster presentation at the Society of Critical Care Medicine's 2007 Critical Care Congress, Orlando, FL.
41. Fong, J., Cecere, K., Unterborn, J., Garpestad, E., Klee, M. & **Devlin, J.W.** [2007, February]. *Characterizing compliance variability among three different severe sepsis bundles at an academic medical center.* Accepted for poster presentation at the Society of Critical Care Medicine's 2007 Critical Care Congress, Orlando, FL.)
40. Fong, J., Kanji, S., Garpestad, E., Dasta, J., Turbett, A. & **Devlin, J.W.** [2007, February]. *Propofol is associated with a shorter duration of mechanical ventilation than scheduled intermittent lorazepam in both medical and surgical intensive care unit patients.* Accepted for poster presentation at the Society of Critical Care Medicine's 2007 Critical Care Congress, Orlando, FL.

39. Lancaster, J., Fong, J.J., Lawrence, K., Doron, S. & **Devlin, J.W.** [2006, December]. *Impact of institutional hospital-associated pneumonia treatment guidelines on the appropriateness of initial antibiotic selection and subsequent antibiotic de-escalation*. Accepted for poster presentation at the 2006 American Society of Health System Pharmacist's Clinical Midyear Meeting, Anaheim, CA.
38. **Devlin, J.W.**, Metz, D.C., Vakily, M., Atkinson, S. & Lloyd, E. [2006, October]. *Administering lansoprazole as a two-minute intravenous injection provides a similar pharmacokinetic, pharmacodynamic, and safety profile as a 30-minute infusion*. Poster presented at the American College of Clinical Pharmacy's 2006 Annual Meeting, St. Louis, MO.
37. Qualter, D., Van Amburgh, J., **Devlin, J.W.** & Kirwin, J. [2006, October]. *Capture the action! Development of a valid and reliable active learning inventory tool*. Platform presentation at the POD Network Conference, Portland, OR.
36. **Devlin, J.W.**, VanAmburgh, J., Kirwin, J. & Qualter, D. [2006, July]. *To do or not to do: Faculty perceptions of active learning in large classes*. Poster presented at the American Association of Colleges of Pharmacy 2006 Annual Meeting, San Diego, CA.
35. VanAmburgh, J., **Devlin, J.W.**, Kirwin, J. & Qualter, D. [2006, July]. *Capturing the action! Development of a valid and reliable active learning inventory tool*. Poster presented at the American Association of Colleges of Pharmacy 2005 Annual Meeting, San Diego, CA.
34. Divall, M., **Devlin, J.W.**, Douglass, M., Gonyeau, M., Pomfret & T. & Trujillo, J. [2006, July]. *Enhancing students' ability to identify and manage drug-related problems throughout a therapeutics course series*. Poster presented at the American Association of Colleges of Pharmacy 2006 Annual Meeting, San Diego, CA.
33. Gonyeau, M., **Devlin, J.W.**, Douglass, M., Divall, M., Pomfret, T. & Trujillo, J. [2006, July]. *Current practices and beliefs regarding the use of capstone experiences in U.S. schools of pharmacy*. Poster presented at the American Association of Colleges of Pharmacy 2006 Annual Meeting, San Diego, CA.
32. Cecere, K., Fong, J., Klee, M. & **Devlin, J.W.** [2005, December]. *Adherence to severe sepsis quality indicators at an academic medical center: A baseline analysis*. Poster presented at the American Society of Health System Pharmacist's 2005 Clinical Midyear Meeting, Las Vegas, NV.
31. Bakshi, A., Bungay, K.M., Olsen, K.M. & **Devlin, J.W.** [2005, October]. *An in vitro comparison of different providers to deliver four proton pump inhibitor (PPI) products through a feeding tube*. Poster presented at the American College of Clinical Pharmacy's 2005 Annual Meeting, San Francisco, CA.
30. Tanios, M.A., **Devlin, J.W.** & Epstein, S.K. [2005, May]. *Perceived barriers to implementing strategy of daily interruption of sedative in the intensive care unit for critically ill patients*. Platform presented at the American Thoracic Society's 2005 Annual Scientific Meeting. San Diego, CA.
29. **Devlin, J.W.**, Tanios, M. & Epstein, S. [2005, January]. *Current practices, beliefs and attitudes on sedation in the intensive care unit using a large scale national survey*. Poster presented at the Society of Critical Care Medicine's 2005 Congress, Phoenix, AZ.
28. Kane, S., **Devlin, J.W.** & Cohen, H. [2005, January]. *A national survey of adverse medication reporting and assessment practices in the intensive care unit (ICU)*. Poster presented at the Society of Critical Care Medicine's 2005 Congress, Phoenix, AZ.
27. MacLaren, R., Bond, C.A., **Devlin, J.W.** & Martin, S. [2005, January]. *A national survey characterizing the current practice of critical care pharmacists*. Poster presented at the Society of Critical Care Medicine's 2005 Congress, Phoenix, AZ.
26. Napoli, K.N., VanAmburgh, K. & **Devlin, J.W.** [2004, December]. *Impact of a clinical pharmacist providing collaborative care on clinical outcomes in a population of patients with diabetes at an urban community health center*. Poster presented at the American Society of Health System Pharmacist's 2004 Clinical Midyear Meeting, Orlando, FL.
25. **Devlin, J.W.**, Lau, A.K. & Tanios, M. [2004, October]. *Propofol-associated hypertriglyceridemia and pancreatitis: An incidence and risk factor analysis*. Platform presentation at the American College of Clinical Pharmacy's 2004 Annual Meeting, Dallas, TX.
24. Ahrens, C.L., Barletta, J.F., Kanji, S., Tyburski, J.G., Wilson, R.F., Simmons, S. & **Devlin, J.W.** [2003, January]. *The effect of a hypocaloric parenteral nutrition regimen on the incidence of hyperglycemia and insulin requirements in surgical patients*. Poster presented at the Society of Critical Care Medicine's 2003 Critical Care Congress, San Antonio, TX.
23. Seta, M., Somerville, A. & **Devlin, J.W.** [2003, January]. *A retrospective analysis of the effects of fenoldopam versus nitroprusside on blood pressure, renal function, toxicity, and hospital costs in patients admitted with hypertensive emergencies*. Poster presented at the Society of Critical Care Medicine's 2003 Critical Care Congress, San Antonio, TX.
22. Nguyen, C., Barletta, J.F. & **Devlin, J.W.** [2002, December]. *A national survey of acid suppression prescribing practice in the acutely ill*. Poster presented at the American Society of Health System Pharmacist's 2002 Clinical Midyear Meeting, Atlanta, GA.
21. Kanji, S., Betancourt, M., Kruse, J.A. & **Devlin, J.W.** [2002, April]. *Validating the use of ICD-9 based search strategies to identify patients with severe sepsis who may be candidates for drotrecogin alfa (activated) therapy*. Presented at the

- American College of Clinical Pharmacy's 2002 Spring Practice and Research Meeting, Savannah, GA.
20. Kanji, S., McKinnon, P.S., Barletta, J.F., Kruse, J.A. & **Devlin, J.W.** [2002, January]. *Bioavailability of gatifloxacin by nasogastric administration with and without concomitant enteral feeding in critically ill patients*. Poster presented at the Society of Critical Care Medicine's 2002 Critical Care Congress, San Diego, CA.
 19. Delgado, G., Barletta, J.F., Kanji, S., Tyburski, J.G., Wilson, R.F. & **Devlin, J.W.** [2002, January]. *Characteristics of prophylactic antibiotic strategies following penetrating abdominal trauma at a level one urban trauma center: A comparison to the EAST Guidelines*. Paper presented at the Eastern Association for the Surgery of Trauma's 2002 Scientific Meeting, Orlando, FL.
 18. Tyburski, J.G., Dente, C., Wilson, R.F., Steffes, C., **Devlin, J.W.**, Carlin, A., Shanti, C. [2001, March]. *Differences in arterial and mixed venous IL-6 Levels: The lungs as a source of cytokine storm in sepsis*. Paper presented at the Central Surgical Association's 2001 Annual Scientific Meeting, Tucson, AZ.
 17. Kanji, S., Barletta, J.F., Janisse, J.J. & **Devlin, J.W.** [2001, February]. *Continuous cisatracurium therapy requires greater dose increases over time than continuous pancuronium therapy*. Poster presented at the Society of Critical Care Medicine's 2001 Critical Care Congress, San Francisco, CA. .
 16. Diebel, L.N., Liberati, D.M., Brown, W.J., Painter, T., Dulchavsky, S.A. & **Devlin, J.W.** [2000, November]. *IGA protease is a virulence factor for gram negative pneumonia*. Paper presented at the Western Trauma Association's 2000 Annual Scientific Meeting, Big Sky, MT.
 15. Marie, A., **Devlin, J.W.**, Barletta, J., McKinnon, P.S. & Rybak, M.R. [2000, October]. *Expected cost savings not realized with the addition of oral levofloxacin to the formulary at a tertiary, level 1 trauma center*. Poster presented at the 2000 Annual Meeting of the American College of Clinical Pharmacists, Los Angeles, CA.
 14. McKinnon, P.S., Goff, D., Kern, J., **Devlin, J.W.**, Sierawski, S., Barletta, J., Mosenthal, A., Kaul, S., Patel P., Gore P., Ambegaonkar, A.J. & Lubowski, T.J. [2000, September]. *A multicenter analysis of the temporal relationship between candidemia risk factors, candida colonization and infection, and antifungal therapy in surgical intensive care unit (SICU) patients*. Platform presented at the 2000 International Congress of Antimicrobials and Chemotherapy, Chicago, IL.
 13. Douglass, M.A., Tran, A.H., **Devlin, J.W.** & Racine, E. [2000, April]. *Inter-hospital comparison of quality indicators for a pharmacist-managed anticoagulation service within a large academic health system*. Poster presented at the 2000 Spring Meeting of the Annual Meeting of the American College of Clinical Pharmacists, Monterrey, CA.
 12. **Devlin, J.W.**, Coplin, W.M., Swarczinski, C., Leacock, R., Lewis, R. & Kruse, J.A. [2000, January]. *Reliability of nursing train-of-four assessment for ICU patients receiving continuous neuromuscular blockade*. Poster presented at the Society of Critical Care Medicine's 2000 Critical Care Congress, Orlando, FL.
 11. **Devlin, J.W.**, Coplin, W.M., Swarczinski, C., Leacock, R., Lewis, R. & Kruse, J.A. [2000, January]. *Validity of nursing train-of-four assessment for ICU patients receiving continuous neuromuscular blockade*. Poster presented at the Society of Critical Care Medicine's 2000 Critical Care Congress, Orlando, FL.
 10. Claire, K.S., **Devlin, J.W.**, Higgins, B., Smolarek, R.T. & Wilczack, J. [1999, December]. *Use of a structured survey of anesthesia providers to develop consensus guidelines for the perioperative use of neuromuscular blockers*. Poster presented at the American Society of Health System Pharmacist's 1999 Clinical Midyear Meeting, Orlando, FL.
 9. **Devlin, J.W.**, Tyburski, J., & Moed, B. [1999, October]. *Implementation and evaluation of enoxaparin deep vein thrombosis prophylaxis guidelines after major trauma*. Poster presented at the 1999 Annual Meeting of the American College of Clinical Pharmacists, Kansas City, MO.
 8. Claire, K.S., Renaud, E.A. & **Devlin, J.W.** [1998, December]. *Standardization of pain management across an eight hospital health system*. Poster presented at the American Society of Health System Pharmacist's 1998 Clinical Midyear Meeting, New Orleans, LA.
 7. **Devlin, J.W.**, Claire, K.S., Karmo, N.B., Dulchavsky, S. & Tyburski, J.M. [1998, October]. *Impact of trauma stress ulcer prophylaxis guidelines on drug use and incidence of major gastrointestinal bleeding*. Platform presented at the 1998 Annual Meeting of the American College of Clinical Pharmacists, Cincinnati, OH.
 6. **Devlin, J.W.**, Boleski, G., Mlynarek, M., Nerenz, D., Peterson, E., Horst, H.M. & Zarowitz B.J. [1998, January]. *The Motor Activity Assessment Scale: A valid and reliable sedation scale for use in adult, mechanically ventilated, surgical ICU patients*. Platform presented at the Society of Critical Care Medicine's 1998 Critical Care Congress, San Antonio, TX.
 5. Mazur, J.E., **Devlin, J.W.**, Peters, M.J., Iannuzzi, M.C. & Zarowitz, B.J. [1998, January]. *Single versus multiple doses of acetazolamide for metabolic alkalosis in critically ill medical patients: A randomized, double-blind trial*. Poster presented at the Society of Critical Care Medicine's 1998 Critical Care Congress, San Antonio, TX
 4. **Devlin, J.W.**, Peters, M., Ulep, S., Ben-Menachem, T., Fogel, R. & Zarowitz, B.J. [1997, October]. *Stress ulcer prophylaxis in medical ICU patients: Annual utilization in relation to the incidence of endoscopically-proven stress-related gastritis over a four year period*. Poster presented at the 1997 Annual Meeting of the American College of Clinical Pharmacists, Phoenix, AZ.
 3. **Devlin, J.W.**, Pettita, A., Shepard, A. & Obeid, F.N. [1997, October]. *Cost-effectiveness of enoxaparin versus low-dose*

heparin in the prevention of venous thromboembolism after major trauma. Poster presented at the 1997 Annual Meeting of the American College of Clinical Pharmacists, Phoenix, AZ.

2. **Devlin, J.W.**, Holbrook, A.M.& Fuller, H.D. [1997, February]. *The effect of evidence-based sedation guidelines on clinical outcomes and drug cost.* Poster presented at the Society of Critical Care Medicine's 1997 Critical Care Congress, San Diego, CA.

1. **Devlin, J.W.**, Mylnarek, M., Peters, M., Slavik, R., Horst, M., Hyzy, R. & Zarowitz, B.J. [1997, February]. *Drug-related admissions to intensive care units.* Poster presented at the Society of Critical Care Medicine's 1997 Critical Care Congress, San Diego, CA

Invited Lectures

International

28. *Postoperative delirium: latest approaches and evidence-based strategies.* Presented at the 20th Annual International Pan Arab Critical Care Medicine Society Conference. Kuwait City, Kuwait [January 2025]

27. *Antipsychotic therapy in delirium: paving the way for better outcomes?* Presented at the 20th Annual International Pan Arab Critical Care Medicine Society Conference. Kuwait City, Kuwait [January 2025]

26. *Mitigating PICS: the impact of the ABCDEF bundle.* Presented at the 20th Annual International Pan Arab Critical Care Medicine Society Conference. Kuwait City, Kuwait [January 2025]

25. *How should I best provide continuous sedation in my older patients to avoid complications?* Presented at the 2024 European Society of Intensive Care Medicine Annual Meeting. Barcelona, Spain [October 2024]

24. *Medication and agitation? An evidence based approach which works.* Presented at the 2024 European Society of Intensive Care Medicine Annual Meeting. Barcelona, Spain [October 2024]

23. *Inhaled sedation.* Presented at the 2023 European Society of Intensive Care Medicine Annual Meeting. Milan, Italy [October 2023]

24. *Pharmacogenomics.* Presented at the 2023 European Society of Intensive Care Medicine Annual Meeting. Milan, Italy [October 2023]

21. *Managing ICU Pain and Agitation: Maintaining Patient Wakefulness and Reducing Delirium and PICS.* Presented at the 49th Annual Meeting of the Japanese Society of Intensive Care Medicine. Tokyo, Japan [January 2022](virtual)

20. *Strategies to reduce delirium when optimizing ICU comfort and safety.* Presented at the 17th Annual European Delirium Society, Barcelona, Spain [November 2021](virtual)

19. *Ideal sedatives and analgesics to prevent and treat ICU delirium.* Presented at the Best of SCCM Congress. Abu Dhabi, SAE [November 2021](virtual)

18. *Optimizing ICU sedation: Maintaining patient wakefulness and reducing delirium,* Presented at the Associao de Medicina Intensiva Brasileiros National Congress. San Paulo, Brazil [November 2021](virtual)

17. *a. Implementing the 2018 SCCM PADIS guidelines (plenary). b. Common challenges to effective ABCDEF bundle implementation. c. Is the use of antipsychotics to prevent or treat delirium still valid? d. Analgo-sedation in special situations e. Is good sleep quality possible in critically ill patients?* Presented at the Associao de Medicina Intensiva Brasileiros National Congress. Fortaleza, Brazil [November 2019]

16. *Adapting the 2018 SCCM PADIS guideline to reduce delirium.* Presented at the 2019 European Society of Intensive Care Medicine Congress. Berlin, Germany [September 2019]

15. *Reducing delirium through application of the 2018 PADIS guidelines.* Presented at the 2018 European Delirium Society Meeting. Utrecht, NL [November 2018]

14. *Key considerations when designing and conducting a medication-focused delirium clinical trial.* Presented at the 2017 European Delirium Society Meeting. Oslo, Norway [November 2017]

13. *Clarifying the confusion surrounding drug associated delirium in the ICU:* Presented at the 2015 European Delirium Society Annual Meeting. London, UK [September 2015]

12. *Critical care pharmacists: a key resource to improve drug-associated outcomes in British ICUs.* Critical care rounds. St Thomas's Hospital, London, UK [September 2015]

11. *Controversies surrounding the prevention and treatment of delirium in critically ill adults.* Critical care grand rounds: University College Hospital, London, UK [September 2015]

10. *Optimizing strategies to prevent coma and delirium in the ICU.* Presented at 2013 Dutch National Symposium on Critical Care, Ede, NL [February 2013]

9. *Highlights of the 2012 SCCM pain, agitation and delirium consensus guidelines.* Invited presentation at the 2012 Canadian ICU Collaborative Annual Meeting, Toronto, ON [May 2012]

8. *ICU Delirium: pharmacologic prevention and treatment.* Invited presentation at the 30th International Symposium and

Intensive Care and Emergency Medicine, Brussels, Belgium [March 2012]

7. *Optimizing sedation in the ICU: The importance of the multidisciplinary team.* Invited presentation at the 30th International Symposium and Intensive Care and Emergency Medicine, Brussels, Belgium [March 2012]

6. *The interaction between sedation drug cost and long term patient outcome.* Invited presentation at the 30th International Symposium and Intensive Care and Emergency Medicine. Brussels, Belgium [March 2012]

5. *Economics in sedation: Responsible use of the ICU budget.* Presented as part as an International Consensus Conference: Acute Care Sedation: Targeting Delirium and Duration at the Canadian Critical Care Forum. Toronto, Canada [November 2011]

4. *The cost of appropriate sedation in the ICU.* Invited presentation at the Canadian Critical Care Forum. Toronto, Canada [November 2010]

3. *Therapeutic Debate: Why propofol should be the first-line sedative in mechanically ventilated patients.* Invited presentation at the Canadian Critical Care Forum. Toronto, Canada [November, 2010]

2. *Cost considerations when optimizing sedation in the ICU.* Invited presentation at the 33rd annual meeting of the Mexican Society of Critical Care Medicine. Monterrey, Mexico. [September, 2010]

1. *The interface between sleep and delirium in the critically ill.* Invited presentation at the Annual Congress of the European Respiratory Society. Vienna, Austria. [September, 2009].

National

67. *Celebrating a dozen years of ICU Liberation: assessing the impact of the PADIS guidelines.* To be presented at the Society of Critical Care Medicine's 2026 Congress, Chicago, IL [March 2026]

66. *Pro: Costs and resources must impact clinical decision-making in the ICU.* To be presented at the Society of Critical Care Medicine's 2026 Congress, Chicago, IL [March 2026]

65. *Medications associated with delirium or worsening delirium.* Presented at the Society of Critical Care Medicine's 2025 Congress, Orlando, FL [February 2025]

64. *ICU strategies to improve cognitive function after critical illness.* Presented as NIDUS National Webex [January 2025]

63. *Strategies to reduce delirium and PICS during the ICU admission.* Presented at the 2024 American Delirium Society Annual Meeting. Sacramento, CA [June 2024]

62. *Successful investigator-initiated studies in the ICU.* Presented as an SCCM Discovery National Webex [March 2024]

61. *Medications and delirium: drugs which contribute to delirium and drugs to treat delirium.* Presented at the 2022 American College of Chest Physicians Annual Meeting. Nashville, TN [October 2022]

60. *Optimizing the 4Ms: medication.* Presented at the American Delirium Society's 2022 Annual Meeting. Indianapolis, IN [June 2022]

59. *Strategies to reduce medication overload when optimizing comfort in the ICU.* Presented at the American Thoracic Society's World Congress, Philadelphia, PA [May 2021]

58. *50 Years of Clinical Practice Guidelines in Critical Care Medicine: What About Older Adults?* Presented at the Society of Critical Care Medicine's 2021 Virtual Critical Care Congress [February 2021]

57. *Build a Bundle: More Than Just Common Sense.* Presented at the Society of Critical Care Medicine's 2021 Virtual Critical Care Congress [February 2021]

56. *Reducing delirium in critically ill adults with COVID-19.* Presented at the American Delirium Society's 2020 Virtual Annual meeting [June 2020]

55. *Opioid-free analgesia in the ICU: Ketamine, Lidocaine, Gapentin.* Presented at the Society of Critical Care Medicine's Critical Care Congress, Orlando, FL [February 2020]

54. *Ideal sedatives and analgesics to prevent and treat ICU delirium.* Presented at the Society of Critical Care Medicine's Critical Care Congress, Orlando, FL [February 2020]

53. *Good sleep hygiene.* Presented at the Society of Critical Care Medicine's Critical Care Congress, Orlando, FL [February 2020]

52. *Updates in ICU delirium: Insights from the PADIS guidelines.* Presented at CHEST 2019 – the Annual Meeting of the American College of Chest Physicians. New Orleans, LA [October 2019]

51. *Delirium prevention and treatment: current evidence gaps.* Presented at the NIA's NIDUS 7th Annual Delirium Boot Camp. State College, PA [October 2019]

50. *a. A: Assess, prevent, and manage pain. B. D: Delirium: Assessment, prevent and manage. C. Integration of good sleep hygiene.* Presented at the Society of Critical Care Medicine's 2019 ICU Liberation Conference, Nashville, TN [September 2019]

49. *Multimodal analgesia.* Presented at the American Thoracic Society's World Congress, Dallas, TX [May 2019]

48. *Unintended consequences of measure enforcement.* Presented at the Society of Critical Care Medicine's Critical Care

Congress, San Diego, CA [February 2019]

47. *The 2018 SCCM PADIS guidelines*. Presented at the Society of Critical Care Medicine's Critical Care Congress, San Diego, CA [February 2019]

46. *Multimodal analgesia*. Presented at the Society of Critical Care Medicine's Critical Care Congress, San Diego, CA [February 2019]

45. *Delirium reduction*. Presented at the Society of Critical Care Medicine's Critical Care Congress, San Diego CA [February 2019]

44. *The 2018 PADIS Guideline: Boosting efforts to reduce pain, oversedation, delirium, immobility and disrupted sleep in the ICU*. Co-Chair Full-Day Clinical Reasoning Series. Presented at the Annual Meeting of the American College of Clinical Pharmacy. Seattle, WA [October 2018].

43. *Detection and management of delirium*. Presented at the American Transplant Congress. Seattle, WA [June 2018]

42. *The 2018 SCCM PADIS guidelines: what's new?* Presented at the American Delirium Society's 2018 Annual Meeting, San Francisco, CA [June 2018]

41. *The role for antipsychotic therapy for delirium. Debate: Con*. Presented at the American Delirium Society's 2018 Annual Meeting, San Francisco, CA [June 2018]

40. *The war on drugs: optimizing sedation for the older adult in the ICU*. Presented at the Society of Critical Care Medicine's 2018 Critical Care Congress, San Antonio, TX [January 2018]

39. *Delirium prevention and treatment*. Presented at the Society of Critical Care Medicine's ICU Liberation Conference. Nashville TN [September 2017]

38. *Pain assessment and treatment*. Presented at the Society of Critical Care Medicine's ICU Liberation Conference. Nashville TN [September 2017]

37. *Choice of sedation*. Presented at the Society of Critical Care Medicine's ICU Liberation Conference. Nashville TN [September 2015]

36. *Pain, agitation and delirium: Beyond the guidelines*. Presented at the Society of Critical Care Medicine's 2015 Critical Care Congress, Phoenix, AZ [January 2015]

35. *Reducing adverse drug events in critically ill older adults*. Presented at the Society of Critical Care Medicine's 2015 Critical Care Congress, Phoenix, AZ [January 2015]

34. *Optimizing delirium recognition and prevention in the critically ill*. Presented at the American Society of Health System Pharmacists 2013 Clinical Midyear Meeting, Anaheim, CA [December 2013]

33. *Understanding factors that affect sleep quality in the ICU*. Presented at the Society of Critical Care Medicine's 2014 Critical Care Congress, San Francisco, CA [January 2014]

32. *Implementing the 2013 ICU pain, agitation and delirium guidelines. Opportunities for pharmacists to lead interdisciplinary change*. Presented at the American Society of Health System Pharmacists 2012 Clinical Midyear Meeting, Orlando, FL [December 2013]

31. *The 2013 PAD guidelines: Clarifying the evidence and establishing pharmacist's priorities*. Presented at the American Society of Health System Pharmacists 2012 Clinical Midyear Meeting, Orlando, FL [December 2013]

30. *The Pharmacist's role in implementing the new pain, agitation, delirium guidelines in the critical care setting*. Presented at the American Society of Health System Pharmacists 2012 Clinical Midyear Meeting, Las Vegas, NV [December 2012]

29. *Securing grant funding for clinical research: stories of success*. Presented at the 2012 Annual Meeting of the American College of Clinical Pharmacists. Hollywood, FL [October 2012]

28. *Update on preventing and treating delirium in the critically ill*. Presented at the American Society of Health System Pharmacists 2011 Clinical Midyear Meeting, New Orleans, LA [December 2011]

27. *Recognizing, preventing and treating delirium in the critically ill*. Presented at the 2011 Annual Meeting of the American College of Clinical Pharmacists. Pittsburgh, PA [October 2011]

26. *State-of-the-Art sedation management: It's as easy as ABCDE*. Presented at the 2011 American Association of Critical-Care Nurses (AACN) National Teaching Institute, Chicago, IL [May 2011]

25. *Pharmacologic mechanisms of immunosedation: opioids and alpha agonists*. Presented at the Society of Critical Care Medicine's 2011 Critical Care Congress, San Diego, CA [January 2011]

24. *Therapeutic debate. Dexmedetomidine should be used as the initial sedative in mechanically ventilated patients in the ICU: Pro*. Presented at the American Society of Health System Pharmacists 2010 Clinical Midyear Meeting, Anaheim, CA [December 2010]

23. *Delirium in the critically ill: The pharmacist's role in identification, prevention and treatment*. Presented at the American Society of Health System Pharmacists 2010 Clinical Midyear Meeting, Anaheim, CA [December 2010]

22. *Delirium identification and treatment in the ICU*. Presented at the American Society of Health System Pharmacists 2010 Clinical Midyear Meeting, Anaheim, CA [December 2010]

21. *Haloperidol is the "go to" drug for delirium: but are atypicals a better option?* Presented at the at the Society of Critical Care Medicine's 2010 Critical Care Congress, Miami, FL [January 2010]
20. *Treating agitation and delirium: providing clarity to an alphabet soup of potential options.* Presented at the at the Society of Critical Care Medicine's 2010 Critical Care Congress, Miami, FL [January 2010]
19. *Perspectives on serious adverse events with proton pump inhibitors.* Presented at the American College of Clinical Pharmacy's 2008 Annual Meeting. Louisville, KY. [2008, October].
18. *Optimizing strategies to reduce the incidence of oversedation in your ICU.* Presented as a web-based conference to VHA's quarterly TICU quality improvement educational series. [2008, May]
17. *Debate: What is the optimal sedation regimen for patients mechanically ventilated > 24 hours: Demedetomidine vs benzodiazepines vs propofol?* Presented at the Society of Critical Care Medicine 2008 Pharmacotherapy Symposium. Philadelphia, PA (also served as symposium chair) [2008, March]
16. *Atypical presentations of GERD in older patients.* Presented as a national teleconference via Princeton CME. [2008 February].
15. *Scoring systems to optimize sedation.* Presented at the at the Society of Critical Care Medicine's 2008 Critical Care Congress, Honolulu, HI [February 2008]
14. *Best ICU practices: Delirium screening.* Presented at the 36th Congress of the Society of Critical Care Medicine. Orlando, FL. [2007, February].
13. *Developing a programmatic approach to your research.* Presented at a Pre-congress Research Symposium prior to the 36th Congress of the Society of Critical Care Medicine. Orlando, FL. [2007, February].
12. *Acute agitation or is it delirium?* Presented in a Pre-meeting Symposium: Current controversies in critical care pharmacotherapy: Incorporating evidence into practice the American College of Clinical Pharmacy's 2006 Annual Meeting. St. Louis, MO. [2006, October].
11. *Sedation titration – Are sedation scores enough or should EEG monitoring be used?* Presented at Society of Critical Care Medicine's 2005 Pharmacotherapy Symposium. Chicago, IL. [2005, November].
10. *Immunomodulating effects of commonly used ICU drugs: Lipid-based products.* Presented at the Society of Critical Care Medicine's 2005 Congress, Phoenix, AZ. [2005, January].
9. *Pharmacology year in review: Sedation, analgesia, and delirium.* Presented at the Society of Critical Care Medicine's 2005 Congress, Phoenix, AZ. [2005, January].
8. *Optimizing acid suppressive therapy for the critically ill patient: Treatment options and formulary considerations.* Presented as a Pre-Meeting Symposium at the 2004 American Society of Health System Pharmacist's Clinical Midyear Meeting, Orlando, FL (also served as symposium chair) [2004, December].
7. *Intravenous proton pump inhibitors for the treatment and prevention of upper gastrointestinal bleeding: Exploring the controversies.* Presented as a Pre-Meeting Symposia at the 2003 American Society Health System Pharmacist's Clinical Midyear Meeting, New Orleans, LA. (also served as symposium chair) [2003, December].
6. *Clinical trial design.* Presented as part of The Pharmacotherapy Preparatory Course at the American College of Clinical Pharmacy's 2003 Spring Practice and Research Meeting. Palm Springs, CA [2003, April].
5. *Controversies in the management of upper gastrointestinal bleeding:* Presented as a Pre-Meeting Symposia at the American College of Clinical Pharmacy's 2003 Spring Practice and Research Meeting, Palm Springs, CA. (also served as symposium chair) [2003, April].
4. *Critical care guideline review: Neuromuscular blockade in critically ill patients.* Presented at the American College of Clinical Pharmacy's 2002 Spring Practice and Research Meeting. Savannah, GA. [2002, April].
3. *Optimizing acid suppressive therapy in acutely ill patients: When the proton pump inhibitors come marching in.* Presented as a Pre-Meeting Symposium at the 2001 American Society of Health System Pharmacist's Clinical Midyear Meeting, New Orleans, LA (also served as symposium chair) [2001, December].
2. *Optimizing DVT prophylaxis in the critically ill.* Presented at the Society of Critical Care Medicine's 2001 Critical Care Congress, San Francisco, CA. [2001, February].
1. *Optimizing DVT prophylaxis in surgical patients: Avoid rolling the dice!* Presented as a Pre-Symposium at the 2000 American Society of Health System Pharmacist's Midyear Clinical Meeting: Contemporary antithrombotic therapy: Evaluating the clinical and economic outcomes. Las Vegas, NV. [2000, December].

SERVICE AND PROFESSIONAL DEVELOPMENT

Editorial Board Activities

- | | |
|--------------|---|
| 2005-Present | Critical Care Medicine, Editorial Board (reappointed in 2023 to a 7th, 3-year term) |
| 2007-Present | Pharmacotherapy, Editorial Board (reappointed in 2022 to a 6th, 3-year team) |

2003-2009 Annals of Pharmacotherapy, Chair, Critical Care Editorial Advisory Panel
 2003-2011 Pharmacy Practice News, Critical Care Editor

Reviewing Activities

2022 Reviewer, NIH Healthcare Delivery and Methodologies (HDM) study section
 2017-present Lancet, New England Journal Medicine, JAMA
 2017 Grant reviewer, the Canadian Frailty Network.
 2013 Grant reviewer, Singapore National Medical Research Council
 2012 Grant reviewer, Technology Evaluation in the Elderly Network, Health Canada
 2012, 2013 Grant reviewer, Netherlands Organisation for Scientific Research (NWO)
 2011 Cochrane Collaboration. SARGs group. Methods paper: Prevention of delirium in the ICU.
 2010 Grant reviewer, German Ministry of Health.
 2008 Grant reviewer, 2008 New Investigator Program, American Association of Colleges of Pharmacy
 Best Poster Review Committee, 2008 ACCP Annual Meeting
 2007 Grant reviewer, Canadian Institute for Health Research, Health Canada
 2005 American College of Clinical Pharmacy, Gastrointestinal Investigator Development Research Award,
 grant reviewer.
 2005-2008 Society of Critical Care Medicine, Pharmacy Fellowship Grant, grant reviewer
 2004 American College of Clinical Pharmacy PSAP-V Reviewer for "Literature Evaluation" in Science
 and Practice of Pharmacotherapy I.
 2003-2009 Annals of Pharmacotherapy, Chair, Critical Care Editorial Advisory Panel
 1999-2003 Annals of Pharmacotherapy, Critical Care Editorial Advisory Panel
 1999-Present Society Critical Care Medicine, abstract reviewer.
 1997-Present Pharmacotherapy, manuscript reviewer.
 1997-Present Critical Care Medicine, manuscript reviewer.
 1997-Present American College of Clinical Pharmacy, abstract reviewer.
 1997-Present Canadian Journal of Hospital Pharmacy, manuscript reviewer
 1998 ADIS Press, Discern-Insight Series: "Rational Use of Sedating Agents in the ICU", chapter reviewer.
 1997 American Society of Health-System Pharmacists Guidelines for Stress Ulcer Prophylaxis, reviewer.

Consultations/Committees

2021-2025 Co-Director, Network for Investigation of Delirium: Unifying Scientists (NIDUS) 9th to 13th Annual Delirium
 Bootcamps
 2021-2022 Member, ATS 2021 Working Group: Causes, consequences, and treatments of sleep and circadian
 disruption in the ICU
 2020-2021 Regent, American College of Critical Care Medicine
 2019-2020 Past-president, American Delirium Society
 2019-2020 Executive Council, Lown Institute Polypharmacy Initiative
 2019-2020 Steering Committee, AARP/ A&D Delirium Reduction Initiative
 2019-2020 FDA Sceptre ICU Sedation Advisory Panel
 2018-2019 President, American Delirium Society and Co-Chair 2019 Annual Meeting (Boston, MA)
 2017-2021 Advisory Board, Network for Investigation of Delirium: Unifying Scientists (NIDUS)
 2017-2018 President-elect, American Delirium Society
 2016- Member, Aging/Geriatrics Working Group (AGWG), American Thoracic Society
 2016-2022 Board Member, American Delirium Society
 2015 Member, National Institute of Aging/American Geriatric Society U-38 Conference: Sleep in older
 adults: Finding order in the disorder. Bethesda, MD, October 2014.
 2014-2018 Member, Society of Critical Care Medicine ICU Liberation Research Group.
 2014-2018 Chair, Society of Critical Care Medicine's International Pain, Agitation, Delirium, Early Mobilization
 and Sleep Clinical Practice Guidelines for Critically Ill Adults.
 2014-2015 Member, Betsy Lehman Center/State of Massachusetts Patient Safety in Long Term Care Task
 Force
 2014 Member, National Institute of Aging/American Geriatric Society U-38 Conference: Delirium in older
 adults: Finding order in the disorder. Bethesda, MD, February 2014.

2011	International Consensus Conference: Acute Care Sedation: Targeting Delirium Duration (being run by the Canada Critical Care Forum)
2011-13 2008	Nominations Committee, Society of Critical Care Medicine, member Delirium chapter and treatment algorithm. VISICU Incorporated. Invited guest. Canadian Critical Care Trials Group Annual Meeting.
2005-2013	American College of Critical Care Guidelines for the Recognition, Prevention and Treatment of Pain, Agitation and Delirium in Adult ICU Patients
2005-2006	Society of Critical Care Medicine Research Committee.
2005-2006	Society of Critical Care Medicine Critical Care Manpower Task Force.
2005-2008	American College of Critical Care Medicine Outcomes and Investigations Committee.
2005-2008	Society of Critical Care Medicine Pharmacy Fellowship Grant Review Committee
2004-2008	American College of Critical Care Medicine Nominations Committee.
2003 – 2004	Chair, Clinical Pharmacy and Pharmacology Section, Society of Critical Care Medicine.
2001 – 2002	American College of Critical Care Medicine Task Force on ICU Restraints.
2000 – 2003	Society of Critical Care Medicine Membership Committee.
1998 – 2004	Advisory Board, Clinical Pharmacy and Pharmacology Section, Society of Critical Care Medicine.
1998 – 2000	Society of Critical Care Medicine Presidential Task Force on Member Communication.
1997-1998	American College of Clinical Pharmacy Educational Services Committee.

Service to the Community/Public

2005-2022	Community Research Initiative of New England, board member
2003-2005	BAGLY, board member

TEACHING AND ADVISING

Northeastern University School of Pharmacy

Courses Currently Coordinated

HLTH 1010 From the Community to the ICU: Approaches to Interdisciplinary Health in Aging Adults
 PMD U585 Research Methods for Hospital Pharmacists in Health Systems PMD G452
 Advanced Professional Practice Experience, Critical Care-Clinical PMD G452 Advanced
 Professional Practice Experience, Critical Care-Research

Graduate Students

Population Health PhD Program, Bouve College of Health Sciences, Northeastern University, Boston, MA

2016-2020	Matthew Duprey, PharmD, PhD (Primary Mentor)
2020-2024	Ting Ting Wu, PharmD, PhD (Primary Mentor)

Post-Doctoral Critical Care Pharmacy Fellows/PhD Students Trained

This program is in an intensive two year experience program consisting of hypothesis-driven clinical research and accompanying didactic training (80%), didactic and experiential teaching (15%) and clinical practice (5%).

2020-2024	Ting Ting Wu, PharmD, PhD
2016-2020	Matthew Duprey, PharmD, PhD
2013-2015	Abdullah Al-Hammad, PharmD
2011-2013	Nada Alqadheeb, PharmD, FCCP, FCCM
2007-2009	Russel Roberts, PharmD, FCCM
2005-2007	Jeffrey Fong, PharmD, FCCM
1999-2001	Sal Kanji, PharmD

