

Gourang P. Patel, B.S. Chem, Pharm.D, MSc., FCCM
BCPS.,BCCCP
Curriculum Vitae

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Experience

March 2020	Clinical Pharmacist- Critical Care Department of Pharmacy University of Chicago Chicago, IL
July 2002 – March 2020	Pharmacy Supervisor- Adult Critical Care and Perioperative Care Associate Professor Division of Pulmonary and Critical Care Medicine Department of Anesthesiology Department of Pharmacy RUSH Medical College RUSH University Medical Center Chicago, Illinois

Post-Doctoral Training

July 2001-June 2002	Internal Medicine Pharmacy Residency John Cochran VA Medical Center Saint Louis, Missouri Residency Director: Jennifer Kaslar, Pharm.D., BCPS
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Educational Training

August 1992- May 1996	Truman State University Kirksville, Missouri	B.S. Degree in Chemistry
August 1996-May 2001	St. Louis College of Pharmacy Saint Louis, Missouri Magna Cum Laude	Doctor of Pharmacy
August 2006-June 2008	Rush Graduate College Clinical Research Program Chicago, Illinois	Master of Science

Professional Experience

August 2009-Present	Associate Professor Department of Internal Medicine RUSH Medical College Chicago, IL
July 2009-July 2014	Clinical Site Coordinator Critical Care Residency (PGY2) Midwestern University Chicago Colleges of Pharmacy Site: RUSH University Medical Center Chicago, IL
November 2003-Present	Adjunct Instructor Advanced Practice Nursing Northern Illinois University [NIU]
November 2003-Present	Assistant Professor Department of Internal Medicine RUSH Medical College Chicago, IL
August 2002-Present	Adjunct Assistant Professor Division of Pharmacy Practice Chicago Colleges of Pharmacy Midwestern University Downers Grove, IL
August, 2001- June, 2002	Clinical Instructor Division of Pharmacy Practice Saint Louis College of Pharmacy St. Louis, MO
October, 2000-July 2011	Pharmacist Walgreen's Pharmacy Saint Louis, Missouri Chicago, Illinois
May 2015- Present	Associate Professor Department of Anesthesiology

Editorial Board

January 2019 – Present	Critical Care Medicine
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Journal/Publication Reviewer

August 2016	Society of Critical Care Medicine (SCCM) SCCM Annual Critical Care Congress and Symposium January 2017 meeting Abstract Reviewer
January 2014	Journal of Critical Care Manuscript Reviewer
January 2010	Pharmacoepidemiology and Drug Safety Manuscript Reviewer
June 2009	American College of Chest Physicians ACCP Annual Meeting Abstract Reviewer
July 2008-Present	Pharmacotherapy Manuscript Reviewer Critical Care/Infectious Diseases
September 2007	Society of Critical Care Medicine (SCCM) SCCM Annual Critical Care Congress and Symposium February 2008 meeting Abstract Reviewer
June 2007- Present	University Health-System Consortium (UHC) Monograph Reviewer Drug Information
December 2005-Present	Annals of Pharmacotherapy Manuscript Reviewer Critical Care/Infectious Disease

Hospital Committees

- Critical Care Quality Committee-Member 2005-2020
- Emergency Resuscitation Committee-Member 2002-2008
Co-Chair 2008-2011
- Surgical Quality Improvement Committee-Member 2010-2020
- Pharmacy and Therapeutics Committee-Member 2010-2020

Publications

Textbook Chapter

1. **Patel GP** and Tedford S. Chapter 21 The Evolving Role of the Pharmacist in Clinical, Academic, and Industry Sectors. Drug Discovery and Development. 3rd edition. CRS Press. 2019
2. 2018-2019 Critical Care Pharmacy Preparatory Review and Recertification Course's. Chapter- Practice Administration and Development: Protocol Development and Quality Assurance Reviewed by: **Gourang Patel**, PharmD, MSc, FCCM, BCPS, BCCCP and Russel Roberts, PharmD, FCCM
3. Anaphylaxis, Allergies, Angioedema, and Acute CNS Disorders. 2018 CCSAP Chapter Book 2 pg. 61-80. American College of Clinical Pharmacy. By **Gourang Patel**, PharmD, MSc and Megan Rech, PharmD, MS.
4. Acute Pulmonary Embolism in Adults. 2017 PSAP Chapter Book 2 pg. 67-95. American College of Clinical Pharmacy. By Sandy Bartlett, PhD, PharmD and Gwen Bartlett, PharmD.
Reviewed by: **Gourang Patel**, PharmD, MSc and Gina Lumbard Harper, PharmD
5. **Patel GP**, O'Donnell JT. Adverse effects of diabetic drugs. Drug Injury: Liability, Analysis, and Prevention. Lawyers & Judges Publishing Company. October 2012. Chapter 22; 369-380. *Updated 2016*
6. **Patel GP**. Acute adverse drug events in critical care: Emergency Department and Intensive Care Unit. Drug Injury: Liability, Analysis, and Prevention. Lawyers & Judges Publishing Company. October 2012. Chapter 28; 483-490. *Updated 2016*
7. **Patel GP**. Post-Mortem Drug Redistribution. Drug Injury: Liability, Analysis, and Prevention. Lawyers & Judges Publishing Company. October 2012. Chapter 46; 779-781. *Updated 2016*
8. **Patel GP** and Kumar A. Antimicrobial, Antifungal, and Antiviral therapies. Society of Critical Care Medicine [SCCM] Adult Board Critical Care Review. August 2011. Chapter 24; 447-460. *Updated 2017*
9. **Patel GP**. ICU Infection in the era of Multi-Resistance. Chapter 6: Is Vancomycin-Resistant Enterococcus (VRE) under control? Selected Proceedings from the 8th Summer Conference in Intensive Care Medicine. Society of Critical Care Medicine. October 2009; 61-68. Continuing Education (CE)

Articles

1. Benken S, Madrzyk E, Chen D, et al. Hemodynamic Effects of Propofol and Dexmedetomidine in Septic Patients without Shock. *Ann Pharmacother.*2019: 1-8. [Epub ahead of print]
2. **Patel GP**, Hyland SJ, Birrer KL, et al. Perioperative clinical pharmacy practice: Responsibilities and scope within the surgical care continuum. *J Am Coll Clin Pharm.*2019: 1-19. [Epub ahead of print]
3. Menich BE, Miano TA, **Patel GP**, and Hammond DH. Norepinephrine and Vasopressin compared with Norepinephrine and Epinephrine in Adults with Septic Shock. *Ann Pharmacother.* 2019;53: 877-885.
4. Lopansri B, Miller R, Burke J, et al. Physician agreement on diagnosis of sepsis in the intensive care unit: estimation of concordance and analysis of underlying factors in a multicenter cohort. *Journal of Intensive Care.* 2019;7: 1-17.
5. Nelson K, **Patel GP**, Hammond DH. Effects from continuous infusions of dexmedetomidine and propofol on hemodynamic stability in critically ill adult patients with septic shock. *J Intensive Care Med.* 2018.
6. Miller RR, Lopansri BK, Burke JP, Levy M, Opal S, Rothman RE, D'Alessio FR, Sidhaye VK, Aggarwal NR, Balk R, Greenberg JA, Yoder M, **Patel G**, et al. Validation of a Host Response Assay, Septicyte™ LAB, for Discriminating Sepsis from SIRS in the ICU. *Am J Resp Crit Care.* 2018;198:903-913.
7. DeMott JM, **Patel G**, Lat I. Effects of chronic antihypertensives on vasopressor dosing in septic shock. *Ann Pharmacother.* 2018;52:40-47
8. Caffarini E, DeMott J, **Patel G**, Lat I. Determining the clinical utility of an absolute procalcitonin (PCT) value for predicting a positive culture result. *Antimicrob Agents Chemother.* 2017;61:1-6.
9. Falana O, **Patel G**. Efficacy and Safety of Tranexamic Acid versus Aminocaproic Acid in Cardiovascular Surgery. *Ann Pharmacother.*2014; 48:1563-9
10. **Patel GP**. The management of substance abuse in the critically ill. *Dis Mon.* 2014; 60:428-440.
11. Elpern E, Killeen K, **Patel GP**, Senecal P. The Application of Intermittent Pneumatic Compression Devices for Thromboprophylaxis. *Am J Nurs.* 2013;113:30-36
12. Kiel PJ, Vargo CA, **Patel GP**, Rosenbeck LL, and Srivastava S. Possible correlation of sirolimus plasma concentrations with sinusoidal obstructive syndrome of the liver in patients undergoing myeloablative allogeneic hematopoietic cell transplantation. *Pharmacotherapy.* 2012; 32:441-5
13. **Patel, GP**. Postmortem Drug Levels: Innocent Bystander or Guilty as Charged. *J Pharm Pract;* 2012; 25:41-44

14. **Patel, GP** and Balk RA. Systemic Steroids in Severe Sepsis and Septic Shock. *Am J Respir Crit Care Med.* 2012; 185:133-139.
15. Rech MA, Prasse MC, **Patel GP**. Use of Vasopressors in Septic Shock. *JCOM.* 2011; 18:273-277
16. **Patel GP**, Crank CW, Leikin JB. An evaluation of Hepatotoxicity and Nephrotoxicity of Liposomal Amphotericin B (L-AMB). *J Med Tox.* 2011; 7:12-15
17. Peterson SJ, Chen Y, Sullivan CA, Kinnare KF, Tupesis NC, **Patel GP**, Sowa DC, Lateef O, Sheean PM. Assessing the influence of registered dietitian order-writing privileges on parenteral nutrition use. *J Am Diet Assoc.* 2010; 100:1703-11
18. Crank CW, Scheetz MH, Brielmaier B, Rose WE, **Patel GP**, Ritchie DJ, Segreti J. Comparison of Outcomes from Daptomycin or Linezolid Treatment for Vancomycin-Resistant Enterococcal Bloodstream Infection. *Clin Ther.* 2010; 32:1713-1719
19. Gurnani PK, **Patel GP**, Crank CW, Vais D, Lateef O, Akimov S, Balk RA, and Simon D. Impact of the Implementation of a Sepsis Protocol for the Management of Fluid-Refractory Septic Shock: A Single-Center, Before-and-After Study. *Clin Ther.* 2010; 32:1285-1293
20. **Patel GP**, Grahe JS, Sperry M, Singla S, Elpern E, Lateef O, Balk RA. Efficacy and Safety of Dopamine versus Norepinephrine in the Management of Septic Shock. *Shock.* 2010 April; 33:375-380
21. **Patel GP**. A focus on medication safety in the intensive care unit. *Curr Drug Safety.* 2010 Jan; 5:1
22. **Patel GP** and Kane-Gill S. Medication Error Analysis: A Systematic Approach. *Curr Drug Safety.* 2010 Jan; 5: 2-5
23. Elpern EH, Killeen K, Ketchem A, Wiley A, **Patel GP**, Lateef O. Reducing use of indwelling urinary catheters and associated urinary tract infections. *Am J Crit Care.* 2009 Nov; 18: 535-541
24. **Patel GP**, Simon D, Scheetz M, Crank CW, Lodise T, Patel N. The effect of time to antifungal therapy on mortality in Candidemia associated septic shock. *Am J Ther.* 2009 Nov-Dec; 16:508-511
25. Kleinpell RM, **Patel GP**. Pneumonia in Older Adults. *Adv. Nurse Prac.* September 2009; 17:43-47
26. Low-Molecular Weight Heparins: Update on Follow-On "Generic" Compounds (Part 2). Co-Chairs: Tapson V and Marcus P. Faculty: **Patel GP** and Groce J. *Chest Physician* August 2009: 16-17
27. Low-Molecular Weight Heparins: Update on Follow-On "Generic" Compounds (Part 1). Co-Chairs: Tapson V and Marcus P. Faculty: **Patel GP** and Groce J. *Chest Physician* July 2009: 16-17

28. Low-Molecular Weight Heparins: Patient Safety and Clinical Data Requirements for Follow-on “Generic” Biologic Compounds. Co-Chairs: Tapson VF, Marcus P. Faculty: Fared J, **Patel GP**, Talarico L, Groce JB. *Chest Physician* supplement. September 2008: 1-15
29. Kiel PK, Lo M, Stockwell D, **Patel GP**. An Evaluation of Amikacin Nephrotoxicity in the Hematology/Oncology Population. *Am J Ther*. 2008; 15: 131-136
30. **Patel GP** and Balk RA. Choice of vasopressor in septic shock: does it matter? *Critical Care*. 2007,11:174
31. Elpern EH, **Patel GP**, Balk RA. Antibiotic Therapy for Pulmonary Exacerbations in Adults with Cystic Fibrosis. *Medsurg Nurs*. 2007;16: 293-298. Continuing Education (CE).
32. Gueret R, **Patel GP**, Simon DM, Balk RA. Invasive Aspergillosis: Case Report and Review of the Approach to Diagnosis and Treatment. *Clinical Pulmonary Medicine*. 2007;14: 197-205
33. **Patel GP**, Elpern EH, Balk RA. A Campaign Worth Joining: Improving Outcome in Severe Sepsis and Septic Shock Using the Surviving Sepsis Campaign Guidelines. *South Med J*. 2007;100: 557-8
34. **Patel GP**, Crank CW, Black S. Therapeutic Interventions for the Treatment and Control of Influenza. *J Pharm Technol*. 2007;23:79-85
35. **Patel GP**, Balk RA. Recognition and Treatment of Hyponatremia in Acutely Ill Hospitalized Patients. *Clin Ther*. 2007;29: 211-229
36. **Patel GP**, Loh-Trivedi M. Clinical Pharmacists in the Intensive Care Unit: Is there really an equation? *Intensive Care Med*. 2006 Aug; 32(8):1275-6
37. Philbrick AH, Crank CW, **Patel GP**. Antiretrovirals: Pharmacotherapy and Adverse Drug Reactions. *Inet Continuing Education*. 2005; 9(5):1-21. InetCE 221-999-05-010-H02. Released: August 2005
38. Crank CW, **Patel GP**. Antimicrobial Resistance in Gram-Positive and Gram-Negative Bacteria. *Inet Continuing Education*. 2005; 9(4):1-19. InetCE 221-999-05-009-H01. Released: July 2005
39. **Patel GP**, Liberman J, Gurka D, Elpern E, Balk RA. Complications of Critical Illness: Rationale for Prophylactic Strategies. *Clinical Pulmonary Medicine*. 2005;12(4):258-268.
40. **Patel GP** and Crank CW- Management of Gram-Negative Resistance in the Intensive Care Unit. *Journal of Pharmacy Practice*. 2005;18:91-99.
41. **Patel GP**, Gurka D, Balk RA. Management of Sepsis and Septic Shock. *Curr Opin Crit Care*. 2003;9:390-396.
42. **Patel GP**, Balk RA. The Interaction of the Coagulation and Inflammatory Cascades in the Pathogenesis and Management of Severe Sepsis and Septic Shock. *Biomedical Progress* 16:2003

43. **Patel GP**, Kaiser JB. Syndrome of Inappropriate Antidiuretic Hormone- Induced Hyponatremia Associated with Amiodarone. *Pharmacotherapy* 2002;22 (5): 649-651.

44. Moerlein SM, Perlmutter JS, **Patel GP**, et al. Comparison of Carbon-11 and Fluorine-18 Labeled (N-Methyl) Benperidol (NMB) in rodents Using MicroPet Imaging. *J Lab Comp Radiopharm* 2001;44:s455-s456.

Abstract/Poster Presentation

1. **Patel GP**, Nelson KM, Hammond D. Effects from Propofol and Dexmedetomidine in the Critically ill adults with Septic Shock. Society of Critical Care Medicine (SCCM) meeting. San Diego, CA. February 2019

2. Menich B, Miano T, **Patel GP**, Hammond D. Norepinephrine and Vasopressin versus Norepinephrine and Epinephrine in Adults with Septic Shock. Society of Critical Care Medicine (SCCM) meeting. San Diego, CA. February 2019

3. Benken S, **Patel GP**, Hammond D. Society of Critical Care Medicine (SCCM) meeting. San Diego, CA. February 2019

4. Zouien E and **Patel GP**. Case presentation- Kombucha. Society of Critical Care Medicine (SCCM) meeting. San Antonio, TX. February 2018.

5. **Patel GP**, Buvanendran A, Rehman S, Gaurav K, Moric M, Robinson S, Kroin J. Opioid prescription patterns in a university academic Emergency Department. American Society of Anesthesiologists (ASA). Boston, MA. October 2017.

6. Caffarini E, DeMott J, **Patel G**, Lat I. Determining the utility of an absolute Procalcitonin (PCT) value. Society of Critical Care Medicine (SCCM) meeting. Honolulu, HI. January 2017.

7. Lai Y, Seddon A, Nathan S, DiGrazia L, Patel GP, Merchant N. Evaluation of Bortezomib with Methotrexate and Tacrolimus for Graft-Versus-Host Disease Prophylaxis in Allogenic Stem Cell Transplant Patients. Hematology Oncology Pharmacists Association (HOPA). March 2016

8. **Patel GP**, Berger K, O'Donnell P, DeMott J, Rechner G, Hanson A, Cooke J, Varghese M, Balk RA. Clinical pharmacist interventions with procalcitonin while performing antibiotic stewardship. Society of Critical Care Medicine (SCCM) meeting. Phoenix, AZ. January 2015.

9. Falana O, **Patel GP**. Efficacy and safety of tranexamic acid versus ϵ -aminocaproic acid in cardiovascular surgery. Society of Critical Care Medicine (SCCM) meeting. San Francisco, CA. January 2014

10. Malik N, **Patel GP**, Tandon R. Clinical Outcomes in patients with Group III associated pulmonary hypertension on prostacyclin therapy. American Thoracic Society (ATS). Philadelphia, PA. May 2013
11. **Patel GP**, Vais D, Gurnani P, Crank C, Kleinpell D, Simon D, Lateef O. A Multidisciplinary Approach to Improve Outcomes in Patients with Septic Shock. American College of Chest Physicians (ACCP) *Oral slide Presentation*. San Diego, CA. October 2009
12. **Patel GP**, Crank CW, Leikin JB. An Evaluation of Hepatotoxicity and Nephrotoxicity of Liposomal Amphotericin B. North American Congress of Clinical Toxicology. NACCT. San Antonio, TX. September 2009
13. **Patel GP** and Leikin JB. Reversal of Ventricular Tachycardia (VT) from Lidocaine with Amiodarone. North American Congress of Clinical Toxicology. NACCT. San Antonio, TX. September 2009
14. Vais D, **Patel GP**, Gurnani P, Crank C, Simon D. An Approach to Improve Outcomes in Patients with Septic Shock. International Congress of Chemotherapy and Infection 26th session. Toronto, Canada. June 2009
15. **Patel GP**, Kleinpell R, Ward E, Lateef O, Altman P, and Gonzaga M. Improving Sepsis Care Practices Through Multidisciplinary Initiatives. RUSH University Medical Center Research Forum. Chicago, IL. May 2009
16. Moreno-Franco P, Mahajan N, Simon-Grahe J, **Patel GP**, Lee W, Tandon R. Outcome of Pulmonary Hypertension Patients who required Endotracheal Intubation with Intensive Care Unit Admission. American Thoracic Society (ATS) meeting. Toronto, Canada. May 2008
17. **Patel GP**, Sperry M, Yoder MA, Simon-Grahe J, Balk RA. Efficacy and Safety of Dopamine versus Norepinephrine in the Management of Septic Shock. Society of Critical Care Medicine (SCCM). *Oral Presentation* at the Annual Meeting. Honolulu, HA. February 2008.
18. **Patel GP**, Crank CW, Loh-Trivedi M, Balk RA. An Evaluation of Nephrotoxicity of Liposomal Amphotericin B. American College of Clinical Pharmacy (ACCP). Denver, CO. October 2007
19. Brielmaier BD, Reichley R, Casabar E, Ledebner N, **Patel GP**, Crank CW, Segreti J, Ritchie DJ. Daptomycin for Treatment of Vancomycin-resistant Enterococcus Bloodstream Infections. American College of Clinical Pharmacy (ACCP). Denver, CO. October 2007
20. Kumar A, Skrobik I, Guzman J, Lapinsky S, Laupland K, Dodek P, Zanotti S, **Patel GP**, Simon D, and the CATTs Investigators. The High Mortality of Candida Septic Shock is Explained by Excessive Delays in Initiation of Antifungal Therapy. Interscience Conference of Antimicrobial Agents and Chemotherapy (ICAAC). Chicago, IL. September 2007
21. Kiel PJ, **Patel GP**, Stockwell D, Fung H. Evaluation of Nephrotoxicity Regarding Aminoglycoside Dosing in a Hematology/Oncology Population. American Society of Health-Systems Pharmacy (ASHP) meeting. Anaheim, CA. December 2006
22. Tverdek F, **Patel GP**, Crank CW. Assessment of the Treatment of Hospital and Ventilator Associated Pneumonia at a University Hospital. American Society of Health-Systems Pharmacy (ASHP) meeting. Anaheim, CA. December 2006

23. Simon-Grahe J, Shashaa S, **Patel GP**, Elpern E, and Balk, RA. Incidence and Outcome of Vasopressor Resistance in Septic Shock. American College of Chest Physicians (ACCP) meeting. Salt Lake City, Utah. October 2006
24. **Patel GP**, Akimov S, Santos C, Wang Y, Crank CW, Balk RA, Simon D. Assessing Antibiotic Administration in Patients With Septic Shock. Infectious Disease Society of America (IDSA) meeting. Toronto, Canada. October 2006
25. **Patel GP**, Crank CW, Proia L, Simon-Grahe J, Simon D. Candidemia associated Septic Shock. Infectious Disease Society of America (IDSA) meeting. Toronto, Canada. October 2006
26. **Patel GP**, Simon-Grahe J, Balk RA. An Evaluation of Adrenal Function and Infecting Pathogen in Septic Shock American Thoracic Society (ATS) meeting. San Diego, CA. May 2006
27. Simon-Grahe J, **Patel GP**, Elpern E, and Balk, RA. Physiologic stressed cortisol levels in vasopressor-dependent septic shock correlate with 28-day mortality American Thoracic Society (ATS) meeting. San Diego, CA. May 2006
28. Bell J, Simon-Grahe J, **Patel GP**, Balk RA. Etiologic Cause of Septic Shock Is Not Associated With Duration of Vasopressor Therapy Or 28 Day Mortality American Thoracic Society (ATS) meeting. San Diego, CA. May 2006
29. Grimm S, Cannon J, Lee T, Crank C, **Patel GP**, Proia L, Labuszewski L, Mullane K, Jancel T, Clark N. Utilization of Newer Antifungals in a Large Metropolitan Setting. FOCUS on Fungal Infections. Las Vegas, NV. March 2006
30. Reimann M, Crank C, **Patel GP**, Flint N. Evaluation of Aminoglycoside and Vancomycin Therapeutic Drug Monitoring American Society of Health-Systems Pharmacists (ASHP) Mid-Year meeting. Las Vegas, NV. December 2005
31. Simon-Grahe J, **Patel GP**, Elpern E, Balk RA. The Safety of Dopamine versus Norepinephrine as Vasopressor Therapy in Septic Shock American College of Chest Physicians (Chest) meeting. Montreal, Canada. October 2005
32. Simon-Grahe J, **Patel GP**, Elpern E, Kellar D, Balk RA. Dopamine versus Norepinephrine as the Initial Vasopressor in Septic Shock American Thoracic Society (ATS) meeting. San Diego, CA. May 2005
33. **Patel GP**, Patel P, Gurka D, Elpern E. Economic Evaluation of Sedation and Analgesia in Medical Intensive Care Unit American Society of Health-System Pharmacists (ASHP) Mid-Year meeting. New Orleans, LA. December 2003
34. Patel P, **Patel GP**. Evaluation of Stress Ulcer Prophylaxis with Pantoprazole in Medically Ill Patients American Society of Health-System Pharmacists (ASHP) Mid-Year meeting. New Orleans, LA. December 2003

Presentations

1. Pharmacotherapy challenges in Critically ill Patients. Society of Critical Care Medicine-SCCM Multiprofessional Critical Care Adult Course. Chicago, IL. August 2019.
2. "Slow to Wake: Managing Delayed Emergence in the Postsurgical Setting". American College of Clinical Pharmacy ACCP Global meeting. Perioperative PRN Focus Session. OR Blues: Management of Perioperative Emergencies. Seattle, WA. October 2018.
3. "Reducing Opioid use in Orthopedic Surgery". American Association of Orthopedic Surgery [AAOS]. New Orleans, LA. March 2018
4. "Perioperative Analgesia". Midwest Orthopedics at Rush. Grand Rounds. April 2017.
5. "Life-Threatening Infections: Diagnosis and Antimicrobial Therapy Selection". Fundamentals in Critical Care Support [FCCS] program for the Society of Critical Care Medicine [SCCM]. Chicago, IL. August 2016
6. "Technology in the ICU- an arranged marriage between Telemedicine and Telepharmacy", Speaker. Society of Critical Care Medicine (SCCM). 45th Annual Congress. Orlando, FL. January 2016
7. "Which Box Does Your Patient Fit into to? Method behind the madness for vasopressor selection", Speaker. Society of Critical Care Medicine (SCCM). 45th Annual Congress. Continuing Education (CE). Orlando, FL. January 2016
8. "Bleeding Jeopardy". Speaker. Society of Critical Care Medicine (SCCM). 45th Annual Congress. Continuing Education (CE). Orlando, FL. January 2016
9. "Perioperative Medication Dosing in the Obese Patient". Department of Anesthesiology-Grand Rounds. January 2016
10. "Perioperative Medication Safety". Department of Anesthesiology-Grand Rounds. December 2015.
11. "Flumazenil: Then and Now". American Academy of Clinical Toxicology/American Board of Applied Toxicology (AACT/ABAT). Journal Club presentation-Webinar. October 2015.
12. "Vasoactive therapies in the ICU". Illinois Academy of Physician Assistants (PA). Continuing Education. Chicago, IL. October 2015.
13. "Life-Threatening Infections: Diagnosis and Antimicrobial Therapy Selection". Fundamentals in Critical Care Support [FCCS] program for the Society of Critical Care Medicine [SCCM]. Chicago, IL. March 2015
14. "Emerging Therapies for Idiopathic Pulmonary Fibrosis (ILD) and the Role of Specialty Pharmaceuticals". National Association of Specialty Pharmaceuticals [NASP]. Continuing Education (CE). Orlando, FL. October 2014

15. "Life-Threatening Infections: Diagnosis and Antimicrobial Therapy Selection". Fundamentals in Critical Care Support [FCCS] program for the Society of Critical Care Medicine [SCCM]. Chicago, IL. August 2014
16. "Pharmacologic parameters for the Obese ICU patient" American College of Physicians [ACP] Annual Conference. Continuing Education (CME). Orlando, FL. April 2014
17. "Pain, Agitation, and Delirium in the ICU" Speaker, American College of Physicians [ACP] Annual Conference. Continuing Education (CME). San Francisco, CA. April 2013
18. "Drug-Induced Arrhythmias in the ICU" Speaker, Society of Critical Care Medicine (SCCM) 40th Annual Conference. Continuing Education (CE). San Diego, CA. January 2011
19. "Managing Hyponatremia: Challenges & Opportunities for the Hospital Pharmacist" Moderator and Speaker. Illinois Council of Health-System Pharmacists (ICHSP). Continuing Education (CE). Oak Brook, IL. August 2011
20. "A Pharmacist approach to a patient with septic shock" 5th Annual Sino-American Hospital Pharmacy Conference. Nanjing, China. May 2010
21. 2010 JPT International Intravenous Conference: Intravenous medication compounding and safety. "Aseptic technique for compounding sterile products" and "USP Chapter <797>" Beijing, China. May 2010
22. "An approach to the management of delirium in the ICU" Illinois Council of Health-System Pharmacists (ICHSP). Spring Meeting. Bloomington, IL. March 2010
23. Vancomycin resistant *Enterococcus* (VRE). Society of Critical Care Medicine (SCCM): ICU Infection in an Era of Multi-Resistance. 8th Summer Conference in Intensive Care Medicine Chicago, IL. June 2009
24. "One Prokinetic Agent versus Two for Gastrointestinal Motility" Presented at the American Society of Parenteral and Enteral Nutrition (ASPEN) conference. *Presenter*. New Orleans, LA. February 2009
25. "Hyperglycemia Management in the ICU" Presented at the American Society of Parenteral and Enteral Nutrition (ASPEN) conference. *Session Moderator and Presenter*. New Orleans, LA. February 2009
26. "Catecholamines at the ICU Bedside: Which is the best?" Presented to the Department of Pharmacology, Seminar Series. Rush University Medical Center. Chicago, IL. November 2008.
27. "Safety and Therapeutic Interchange of Generic Low-Molecular Weight Heparins" Presented at American College of Chest Physicians ACCP Roundtable meeting. Philadelphia, PA. October 2008.
28. "Therapeutic Interchange and Generic Low-Molecular Weight Heparins" Presented at the North American Thrombosis Forum (NATF) meeting at Brigham's and Women's Hospital. Boston, MA. September 2008.

29. "Safety of Follow-on Biologic Medications: Implications for Anticoagulants" Continuing Education Program. Presented at the American College of Chest Physicians ACCP meeting. Huntington Beach, CA. March 2008.
30. "Balancing Propofol and Nutrition in the Intensive Care Unit" Pragmatic Approach to Nutrition in the Intensive Care Unit. Continuing Education Program. Presented at RUSH University Medical Center. Chicago, IL. November 2007.
31. Advanced Critical Care & Trauma Symposium. *Program Consultant and Speaker*. Continuing Education (American Association of Critical Care Nurses AACCN, Accreditation Council for Continuing Education AMA, American Academy of Physician Assistants ACCME, and Accreditation Council for Pharmacy Education ACPE)
 - "Adverse Effects of Sedation and Analgesia in the ICU"*
 - "Evaluation and Treatment of Delirium in the ICU"*
 - "An Approach to Bleeding in the ICU: A Focus on Pharmacotherapy"*Chicago, IL. November 2007
32. "An Evaluation and Treatment Approach to Hyponatremia in the Hospitalized Patient" Alabama Society of Health System Pharmacists (AISHP) Annual Meeting. Continuing Education (ACPE) Birmingham, AL. October 2007
33. "A Evaluation of Treatment Strategies for the Treatment of Hyponatremia in Acutely Ill Patients" Presented to Mayo Clinic Nephrology Fellows. Rochester, MI. April 2007
34. "Pharmacologic Considerations in the Intensive Care Unit: Nutrition" Pragmatic Approach to Nutrition in the Intensive Care Unit. Continuing Education Program. Presented at RUSH University Medical Center. Chicago, IL. November 2005.
35. "Management of Sedation and Analgesia in the Intensive Care Unit" Illinois Council of Health-System of Pharmacists (IHP) Annual Meeting. Continued Medical Education (ACPE). Oak Brook, IL. September 2005.
36. "Therapeutic Management of Gram-Positive and Gram-Negative Resistance" Medicine Grand Rounds, Continuing Medical Education (CME). Presented at St. Joseph Hospital. Chicago, IL. April 2005
37. "Update on the ACCP-Chest Guidelines for Prevention of Venous Thromboembolism" Presented to RUSH University Medical Center Pulmonary and Critical Care Fellows. Chicago, IL. March 2005
38. "Approaches to Resistance in Community Acquired Pneumonia" Medicine Grand Rounds, Continuing Medical Education (CME). Presented at Oak Park Hospital. Oak Park, IL. February 2005
39. "Management of COPD Exacerbation in the Intensive Care Unit" Presented to University of Chicago and Michael Weiss Memorial Hospital Residents/Interns. Chicago, IL. February 2005
40. "Acute Coronary Syndromes-Nursing Approach to Intravenous Treatment Strategies" Presented at Centegra's Fall Nursing Symposium-Continuing Education (CE). Woodstock, IL. September 2004

41. "Acute Coronary Syndromes-A Focus on Reperfusion Therapies" Presented to RUSH University Medical Center Cardiology and Critical Care Fellows. Chicago, IL. August 2004
42. "Approach to Invasive Fungal Infections in Critically Ill Oncology Patients" Presented to Northwestern Memorial Hospital Hematology and Oncology Fellows. Chicago, IL. July 2004
43. "Advances in Antifungal Pharmacology and Update in Candida Guidelines" Pulmonary and Critical Care and Infectious Disease Fellows, Moderator/Presenter Presented to UIC, RUSH, and Loyola Medical Center Chicago, IL. March/April 2004
44. "Strategies for Venous Thromboembolism and Stress Ulcer Prophylaxis in Medically Ill Patients" Medicine Grand Rounds Presented to RUSH Medical Center Residents/Interns, Continuing Medical Education (CME), RUSH University Medical Center, Chicago, IL. November 2003
45. "Critical Appraisal of Surveillance Data for Community Acquired Respiratory Pathogens" Presented to Attending Physicians in Chicagoland Area, Four Seasons Hotel, Chicago, IL. November 2003
46. "Application of Evidence Based Medicine in the Treatment of Community Acquired Pneumonia" Presented to St. Mary's Internal Medicine Residents, St. Mary's Hospital, Chicago, IL. October 2003
47. "Application of Community Acquired Pneumonia Guidelines in an Urgent Care Center" Presented to Attending House Staff, Sherman Medical Center, Algonquin, IL. September 2003
48. "Treatment Approach to Resistant Gram-Positive Infections" Presented to Northwest Community Hospital Pharmacy Staff, Arlington Heights, IL. July 2003
49. "Cardiovascular Pharmacology- RUSH Cardiology Review" Continuing Education Program Presented to RUSH-SLMC Cardiology Fellows, RUSH-Presbyterian St. Luke's Medical Center, Chicago, IL. August 2002
50. "Bioterrorism" Continuing Education Program Presented to Saint Louis Area Pharmacists, Saint Louis College of Pharmacy, St. Louis, MO. February 2002
51. "Sepsis: A New Treatment Approach with Activated Protein C" Continuing Education Program Presented to Saint Louis Area Pharmacists, Saint Louis College of Pharmacy Saint Louis, MO. October 2001
52. "Sepsis: A New Treatment Approach with Activated Protein C" Medicine Grand Rounds Presented to Washington University and Saint Louis University Residents, John Cochran VA Medical Center, Saint Louis, MO. October 2001
53. "The Prevention and Treatment of Postmenopausal Osteoporosis" Presented to Indian Society of Physicians of Saint Louis, Ghandi Cultural Center, Saint Louis, MO. October 2001
54. "Clopidogrel vs. Ticlopidine after Coronary Artery Stent Placement" Doctor of Pharmacy Seminar, Presented to Saint Louis College of Pharmacy Faculty, Saint Louis, MO. January 2001

55. "The Role of Cofactors in Metabolism" Inorganic Chemistry Research Thesis Presented to Chemistry Faculty, Truman State University, Kirksville, MO. May 1996

Teaching Experience

Spring, 2001	PP 2100: Introduction to Pharmaceutical Care and Non-Prescription Drugs Weekly Group Discussion Leader
August, 2001- June2002	Clinical Instructor Division of Pharmacy Practice Saint Louis College of Pharmacy
Fall, 2001	TH 4001: Therapeutics I Weekly Group Discussion Leader
Fall, 2001	Resident Teaching Workshops Saint Louis College of Pharmacy An 18-hour workshop series designed to develop an understanding of knowledge, skills, and attitudes necessary to achieve student-centered, assessment driven learning.
Spring, 2002	CP 5700 Antimicrobial Pharmacotherapy (2 hours) Lecturer/discussion facilitator (Chloramphenicol, Quinupristin/Dalfopristin, Linezolid, and Vancomycin)
Spring, 2002	PP 2100 Introduction to Pharmaceutical Care and OTC Drugs Weekly discussion section leader
Spring, 2002	Preceptor for Pharm.D. Clinical Clerkships Chicago Colleges of Pharmacy Midwestern University
Fall, 2002-Present	Preceptor for Pharm.D. PGY1 Residents Medical Intensive Care Unit rotation RUSH University Medical Center
August 2002-2010	Adjunct Assistant Professor Division of Pharmacy Practice Chicago Colleges of Pharmacy Midwestern University Therapeutic Issues in Critical Care-PPRA 0650 Course Director: Tudy Hodgman Pharm.D., BCPS, FCCM

- November 2003-2010 Assistant Professor
Introduction to Pharmacology-Fluids and Electrolytes
Acid-Base in the Intensive Care Unit
PRF 333
Department of Internal Medicine
RUSH Medical College
Chicago, IL
- August 2005-August 2010 Assistant Professor
Advanced Therapeutics
Course 530D Pharmacotherapeutics
- *Vasoactive Therapy in the Intensive Care Unit*
- *Acute Coronary Syndromes: Focus on Reperfusion Therapies*
College of Nursing
RUSH Medical Center
Chicago, IL
- August 2009-August 2011 Assistant Professor
Course: Medical Pharmacology
RUSH Medical College
Chicago, IL
Fall Quarter: 20 contact hours
- *Pharmacokinetics I and II*
- *Autonomic Nervous System*

Winter Quarter: 14 contact hours
- *Cardiovascular Pharmacology*
- August 2009-2014 Assistant Professor
Course: Physiology and Pharmacology
RUSH Graduate College
Chicago, IL
Fall Quarter: 25 contact hours
- *Autonomic Nervous System*
- *Cardiovascular Pharmacology*

Spring Quarter: 3 contact hours
- *Anticoagulant and antiplatelet therapies*
- *Toxicology*
- July 2011-Present Assistant Professor
Course Director
Course: CDS 608 Pharmacology
RUSH College of Health Sciences
Audiology Pharmacology Curriculum- 30 contact hours

- July 2011-Present Assistant Professor
Department of Anesthesiology
Resident lectures: Pharmacology curriculum
Topics:
- *Pharmacokinetics [PK]*
- *Pharmacodynamics [PD]*
- *Protein binding/Drug dissociation*
- *Drug dosing in obese patients*
- May 2014-Present Assistant Professor
Nurse Anesthesia Program [CRNA]
Course: NSG 542
Pharmacology Curriculum- 8 contact hours
Topics:
- Pharmacokinetics/Pharmacodynamics
- Anaphylaxis
- Drug-Drug Interactions
- January 2016-present Assistant Professor
Perfusion Pharmacology PRF 523
Course Director and lecturer- 9 contact hours
- November 2018 Roosevelt College of Pharmacy
Pharmacology- PHAR 632
Antiemetic therapies-1 hour
Antiulcer therapies-1 hour

Simulation/Education Training

1. Loh-Trivedi M and **Patel GP** “Surviving Sepsis Campaign 2008: A Focus on Pharmacotherapy” Critical Care Simulation. Presented at the American College of Chest Physicians ACCP meeting. Philadelphia, PA. October 2008
2. **Patel GP** “Acute Management of Asthma” Critical Care Presentation. Presented at American College of Chest Physicians (ACCP) meeting. Austin, TX. March 2009
3. **Patel GP**. “Optimizing Sedation and Analgesia in the ICU” Critical Care Bundle Course. Presented at American College of Chest Physicians (ACCP). Dundee, IL. June 2009
4. Sung A and **Patel GP**. “Treatment Approaches for Pulmonary Hypertension in the ICU” Critical Care Bundle Course. Presented at American College of Chest Physicians (ACCP). Dundee, IL. June 2009
5. Loh-Trivedi M and **Patel GP** “Alternatives to Propofol sedation in the ICU: A review of current sedation and analgesia” Presented at the American College of Chest Physicians (ACCP) meeting. San Diego, CA. October 2009

6. **Patel GP**. "Life-Threatening Infections: Diagnosis and Antimicrobial Therapy".
Fundamentals in Critical Care Support (FCCS) sponsored by the SCCM.
August 2013 – August 2017

Community Service

Ronald McDonald House	January 2015
Chicago Food Depository	April 2016
Feed My Starving Children	September 2019

Honors and Awards

Society of Critical Care Medicine (SCCM) Presidential Citation: Contribution to Critical Care	January 2018
Society of Critical Care Medicine (SCCM) Presidential Citation: Contribution to Critical Care	January 2016
Member Spotlight Clinical Pharmacy and Pharmacology Section Newsletter Society of Critical Care Medicine (SCCM)	December 2012
Society of Critical Care Medicine (SCCM) Presidential Citation: Contribution to Critical Care	January 2011
GlaxoSmithKline Pharmaceutical Award in Patient Care	May 2001
Recipient of Mark A. Gasaway Scholarship	2000-2001
Recipient of Werner Scholarship	1999-2000
Saint Louis College of Pharmacy High Proficiency Scholarship	1997- 2001
Saint Louis College of Pharmacy Dean's List	1996-2000

Clinical Research/Grants

1. March 2003-August 2008
Trial: Randomized Trial of Norepinephrine versus Dopamine for Septic Shock
Site: RUSH University Medical Center, Medical Intensive Care Unit
Role: Primary Investigator
Funding: None

2. January 2005-June 2008

Trial: Prospective Review of Antibiotic Administration in Medical-Surgical Intensive Care Units for Septic Shock. Medical Intensive Care Unit and Emergency Department.

Site: RUSH University Medical Center

Role: Co-Investigator

Funding: Center for Clinical Research, RUSH Medical Center, amount of \$1,000

3. January 2006-March 2008

Trial: Retrospective Review of Candidemia Associated Septic Shock

Site: RUSH University Medical Center

Role: Primary Investigator

Funding: None

4. June 2009-July 2010

Trial: The Role of Simulation training with Pharmacy Practice Residents (PGY1/PGY2) in order to reduce adverse events with intravenous medications

Site: RUSH University Medical Center Simulation Lab

Role: Primary Investigator

Funding: Center for Teaching Excellence/Midwestern University and Chicago Colleges of Pharmacy for \$2,500

5. April 2015- April 2016

Trial: Validation of septic gene Expression Using Septicyte (VENUS)

Site: Rush University Medical Center- Medical Intensive Care Unit

Role: Co- Investigator

6. June 2016- December 2017

Trial: Safety of Oliceridine (TRV130) in patients with acute pain for which parenteral opioid therapy is warranted

Site: Rush University Medical Center

Primary Investigator: Adam Young, MD-Anesthesiology

Role: Data Safety Monitoring Board (DSMB)

7. January 2017 – December 2019

Trial: Implementation of Pharmacy services in an out-patient CF clinic

Site: Rush University Medical Center

Role: Primary Investigator

Funding: Cystic Fibrosis Foundation (CFF) Grant for \$87,480 over 3 years

8. June 2017 – July 2018

Trial: An evaluation of local anesthetic efficacy and safety Evaluation of Patient Safety Based on Cumulative Local Anesthetic Exposure in the Perioperative Area

Site: Rush University Medical Center

Role: Primary Investigator

Funding: Center for Clinical Research, RUSH University Medical Center, amount \$2,000

Professional Affiliations/Leadership

American Academy of Clinical Toxicology (AACT) <i>Member</i>	2009-Present
American College of Chest Physicians (ACCP) <i>Member</i>	2008-Present
Society of Critical Care Medicine (SCCM) <i>Member</i>	2002-Present
American College of Clinical Pharmacy (ACCP) <i>Member</i>	2002-Present
Perioperative PRN <i>Treasurer</i>	2018-2019
Gateway College of Clinical Pharmacy <i>Member</i>	2000-2002
Rho Chi National Honor Society Beta-Kappa Chapter/ <i>Member</i> Saint Louis College of Pharmacy	1999- Present

Fellowships

The Institute of Medicine of Chicago (IOMC)	December 2015
American College of Critical Care Medicine (FCCM)	January 2017

Current Licensure and Certification

Board Certified Critical Care Pharmacist (BCCCP)	November 2015
Basic Disaster Life Support (BDLS)	July 2008
Board Certified Pharmacotherapy Specialist (BCPS)	December 2002
Advanced Cardiac Life Support (ACLS)	November 2002
Registered Pharmacist by examination, Illinois	June 2002
Registered Pharmacist by examination, Missouri	October 2000
Basic Cardiac Life Support (BLS)	April 2000

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