

KULDIP R. PATEL

EDUCATION AND POST-GRADUATE RESIDENCY TRAINING

Pharmacy Practice Management Residency
Medical University of South Carolina, SC Jul 2002-Jun 2004

Doctor of Pharmacy
The University of Toledo, OH May 2001

Bachelor of Sciences (Pharmaceutical Sciences) with a Minor in Chemistry
The University of Toledo, OH May 1999

PROFESSIONAL EXPERIENCE

The United States Food and Drug Administration (US FDA) July 2017-Present

Title: Special Government Employee

- The only voting member of the FDA's Pharmacy Compounding Advisory Committee representing hospital and health system pharmacy

Duke University Health System (DUHS) Oct 2010-Present

Title: Associate Chief Pharmacy Officer at Duke University Hospital (957 beds)

- Responsible for strategic, operational, and financial planning for the department of pharmacy. Orchestrate improvements and provide oversight for pharmaceutical purchasing, operating room pharmacies, compounding and sterile preparations. Oversee 50 FTEs and a shared oversight for an annual drug budget exceeding \$200M.
- Responsible for fixed operational, variable, and capital budget management for DUH central pharmacy services, including P&L responsibility.
- Spearheaded process and quality improvement initiatives to achieve performance excellence for the health-system. Responsible for oversight of health-system drug expense and supply chain management as well as the pharmacy value analysis initiatives.
- Developed business plans and successfully executed multi-million-dollar capital projects to establish best practices utilizing innovative technologies.

Orlando Health Jun 2006-Aug 2010

Title: Pharmacy Operations Coordinator at Orlando Regional Medical Center (800 beds)

- Responsible for execution of departmental operations strategic plan. Oversee over 85+ FTEs and an annual drug and salary budget of \$90 million. Executed process improvement and safety enhancement initiatives.
- Provide oversight for performance excellence in medication safety, cost effective drug therapy, and implementation of state of the art technologies.

Hospital Corporation of America (HCA, Inc.) Jul 2004-June 2006

Title: Assistant Director of Pharmacy at Centennial Medical Center (685 beds)

- Responsible for execution of departmental operations strategic plan. Oversee over 60+ FTEs and an annual drug and salary budget of \$40 million. Executed process improvement and safety enhancement initiatives. Launched and maintained barcoded medication administration program.

Medical University of South Carolina (MUSC) Medical Center Jul 2002-Jul 2004

Title: Patient Care Pharmacist

The Cleveland Clinic Foundation

Aug 2001-Jun 2002

Title: Clinical Staff Pharmacist

Rite Aid Pharmacy, Grafton, OH

Mar 1996-Aug 1999

Title: Pharmacy intern

TEACHING EXPERIENCE

Program Coordinator - Health-System Pharmacy Administration Residency Program

Coordinator

July 2015- Present

Residents: Laura Meleis, Mary Durham, Andrew Wright, Jordan DeAngelis

Course Instructor – PACE 832 (Masters Course – Pharmacy Administration program)

Financial Management of Health-System Pharmacy

UNC Eshelman School of Pharmacy

Jan 2015- Present

Preceptor - Health-System Pharmacy Administration Residency (PGY2)

Duke University Hospital

Oct 2010 – Present

Residents: Russell Laundon, Joseph Krushinski, Kevin Helmlinger, Grayson Peek, Laura Meleis, Mary Durham, Andrew Wright, Jordan DeAngelis

Associate Faculty

Lake Erie College of Osteopathic Medicine (Brandenton, FL)

Jul 2008 – Aug 2010

Associate Professor

The University of Tennessee College of Pharmacy

Jul 2004 – Jun 2006

Pharmacy Management Preceptor

Jul 2007 – present

Orlando Regional Medical Center – Pharmacy Practice Residency

Pharmacy Management Preceptor

Jul 2003 – Jun 2004

Medical University of South Carolina – Pharmacy Practice Residency

Course Instructor: Health Systems Pharmacy Practice (MUSC) Spring 2004
Topics: Regulatory Policies, Roles of Pharmacy Practitioners, Human Resource Management
(Position design and descriptions, orientation, staff training, and competency evaluation)

Pharmacy Technician Certification Examination Training Program 2003-2004
Program Coordinator
Course Instructor: Pharmacy Law and Ethics Fall 2003

MAJOR PROJECTS

Spearheading building a new 503B compounding facility
Duke University Health System April 2018

Developed a business proposal to build a new 503B compounding facility (\$6,000,000)
Duke University Health System January 2018

Established the DUHS USP General Chapter <800> Committee July 2016

Established the DUHS Sterile Preparations Oversight Committee July 2015

Expanded the 340B program with the use of auto split software January 2015

Planned and Renovated the Duke Compounding Facility October 2014

Spearheaded a system-wide Pharmacy Value Analysis Team April 2014

Implemented Omnicell WorkflowRx and Carousel Technology March 2014

Planned and opened a full-service (24/7) Operating Room Pharmacy
Duke Medicine Pavilion at Duke University Hospital Jul 2013

Recipient of the Cardinal Health E3 (Effectiveness, Efficiency, and Excellence) Grant (\$31,000)
Implementation of the Continuity of Care Program
Duke University Hospital Apr 2012

Development of a business proposal for implementation of Omnicell Carousel Technology (\$500,000)

Duke University Hospital

Sept 2012

Development of a business proposal and Implementation of the Omnicell Anesthesia Workstations in the Operating Rooms (\$1.8 million)

Duke University Hospital

Sept 2011

Development of a business proposal and Implementation of a State-of-the Art Unit of Use Repackaging Technology (\$120,000)

Duke University Hospital

Sept 2011

Development of a business proposal

Sept 2003

Establishment of the MUSC East Cooper Pharmacy Operation

Medical University of South Carolina Medical Center

Pharmaceutical Outcomes Management Program (POMP)

Jul 2002-Jun 2003

Role: Program Coordinator

Results: \$1.5 million realized in cost savings for Fiscal Year 2002-2003

Medical University of South Carolina Medical Center

PRESENTATIONS

How to Maximize Efficiency through Centralized Pharmacy Inventory

Aug 2018

Audience: Pharmacy Executive Forum. The Advisory Board Company

<https://www.advisory.com/research/pharmacy-executive-forum>

Lead Facilitator: Revenue Cycle Management. ASHP Section of Pharmacy Practice Managers Section Advisory Group on Managing the Pharmacy Enterprise.

Dec 2017

Orange County Convention Center, Orlando, Florida

Moderator: USP 800 the Outpatient Perspective

North Carolina Association of Pharmacists (NCAP) Annual Conference

Sept 2017

Benton Convention Center, Winston-Salem, North Carolina

Moderator: Managing Drug Expense Through the Continuum of Care Panel Discussion

North Carolina Association of Pharmacists (NCAP) Annual Conference

Sept 2017

Benton Convention Center, Winston-Salem, North Carolina

Live Webinar: Health Care Reimbursement and Revenue Cycle Management
ASHP Section of Pharmacy Practice Managers (Continuing Education) May 2017

Moderator: Roundtable discussion on Revenue Cycle Management. ASHP Section of Pharmacy Practice Managers Section Advisory Group on Managing the Pharmacy Enterprise.
ASHP Midyear Clinical Meeting Dec 2016
Mandalay Bay Convention Center, Las Vegas, NV

Creating an Innovative Sterile Compounding Quality Assurance Program in an Institutional Setting Oct 2014
North Carolina Association of Pharmacists (NCAP) Annual Conference
Raleigh Convention Center, Raleigh, North Carolina

Moderator: Selected Topics in Quality and Regulatory Compliance. ASHP Section of Pharmacy Practice Managers Section Advisory Group on Quality and Compliance
ASHP Midyear Clinical Meeting Dec 2008
Orange County Convention Center, Orlando, Florida

Bridging the Gaps in Medication Safety Oct 2003
National Pharmacy Week Continuing Education for Pharmacy Technicians
Medical University of South Carolina Medical Center

Pharmacy Resident Seminar Series: An Operations-Based Analysis of Literature on Adverse Drug Events Oct 2003
Medical University of South Carolina College of Pharmacy

Pharmacy Resident Seminar Series: The Role of Outcomes Analysis in Optimizing Pharmaceutical Care Dec 2002
Medical University of South Carolina College of Pharmacy

RESEARCH POSTER PRESENTATIONS

Frakes J, Lynch A, **Patel K**, Rycek W., Use of Electronic Safety Tools to Reduce Adverse Events Related to Alpha-gal Allergy within a Large, Tertiary, Teaching Hospital. Duke Quality and Safety Conference. Durham, NC. March 2018

Frakes J, Lynch A, **Patel K**, Rycek W., Use of Electronic Safety Tools to Reduce Adverse Events Related to Alpha-gal Allergy within a Large, Tertiary, Teaching Hospital. Annual North Carolina Association of Pharmacists Meeting. Winston-Salem, NC. September 2017

Patel K, Bush PW, Mullinax J. Evaluating the Quality of the Orientation Process for a Large Pharmacy Residency Program with Multiple Program Disciplines. The third annual University HealthSystem Consortium Pharmacy Council Resident and Fellow Poster Session. New Orleans, LA. December 2003

Patel K. “Pharmaceutical Outcomes Management Program 2003.” The Southeastern Regional Residency Conference. University of Georgia. Atlanta, GA. May 2003

Patel K, Uber L, Bush P. Development of an Interdisciplinary Pharmaceutical Outcomes Management Program. The 2nd annual University HealthSystem Consortium Pharmacy Council Resident and Fellow Poster Session. Atlanta, GA. December 2002

PUBLICATIONS AND ABSTRACTS

O’Neal B, **Patel K**, Granko R, et al. Optimizing the Revenue Cycle to Promote the Growth of the Pharmacy Enterprise. *Am J Health-Syst Pharm*. 2018; 75(12): 853-855

Patel K. What Measures should be used to Improve the Safety of Compounded Drugs? Is ePUB in Medical Law Perspectives at <https://medicallawperspectives.com>, in Compounded Drugs: Mix of Risk and Liability. June 2018.

Bonnevay T, Breton R, **Patel K**, et al. The Development of Compendial Rapid Sterility Tests. *Pharmacopeial Forum*. 43(5). September 2017.

Patel K. (2017, May 29). Compensation proportional to Quality: MACRA and the Role of Pharmacists in Improving Quality is ePUB in ASHP Connect (Web log post) at <https://connect.ashp.org/blogs/kuldip-patel/2017/05/29/compensation-proportional-to-quality-macra-and-the-role-of-pharmacists-in-improving-quality>.

Rosoff PM, **Patel K**, McGee AS, et al. Coping With Critical Drug Shortages: An Ethical Approach with Allocating Scarce Resources in Hospitals. *Arch Intern Med*. 2012;172(19):1494-1499

Birrer KL, Anderson R, **Patel K**, et al. Measures to Improve Safety of an Elastomeric Infusion Pump Technology. *Am J Health-Syst Pharm*. 2011;60(13):1251-1255

Patel K, Patel K, Bush PW. Chapter 29. Operations and Medication Control. *Pharmacy Certified Technicians Training Manual, 12th Edition*. Michigan Pharmacist Association. Lansing, Michigan. 2011

Jarrett AT, **Patel K**, Babbitt R. Management Consultation: Understanding Pharmacy Department Billing and the Charge Master. *Am J Health-Syst Pharm*. 2008. 65(23);2213-2214

Bush PW, Walesh SG. **Patel K** authored Lessons 38 (Our Most Important Asset), 39 (Interviewing So Who You Get is Who You Want), and 40 (Eagles and Turkeys). *Managing & Leading. 44 Lessons Learned for Pharmacists*. American Society of Health-System Pharmacists. Bethesda, MD. 2008

Patel K, Bush PW. Chapter 29. Operations and Medication Control. *Pharmacy Certified Technicians Training Manual*. Michigan Pharmacist Association. Lansing, Michigan. 2004 and revised in 2007.

Encore: **Patel K**, Uber L, Bush PW. Development of an Interdisciplinary Pharmaceutical Outcomes Management Program. *Am J Health-Syst Pharm*. 2003;60(20);2148

Patel K, Uber L. Development of an Interdisciplinary Pharmaceutical Outcomes Management Program. *Gastroenterology Nursing*. 2003. 26(3): 127-128

ACHIEVEMENTS AND POSITIONS HELD

Member, ASHP Education Steering Committee	2018-present
Member, Duke University Hospital Leadership Academy	2018-present
Mentor, Pharmacy Leadership Academy (ASHP)	2018-present
Member, US FDA Pharmacy Compounding Advisory Committee	2017-present
Expert Panel Member, The United States Pharmacopoeial Convention Modern Microbiological Methods (rapid sterility testing methods)	2016-present
Chair, ASHP SAG on Management of the Pharmacy Enterprise	2017-2018
Chair, DUHS Sterile Preparations Oversight Committee	2015-present
Chair, DUHS Pharmacy Value Analysis Team	2015-2017
Chair, DUHS Critical Drug Shortage Taskforce	2012-present
Chair, DUH Pharmacy Contracting Committee	2010-2015
Chair, DUH Compounding Advisory Group	2010-2015
Chair, ORMC Medication Use Workgroup	2006-2010
Co-Chair, Medication Safety Committee	2004-2006
Chair, USP 797 Gap Analysis Taskforce (HCA, Inc.)	2005
Chair, Formulary Subcommittee	2003-2004

Coordinator, Pharmacy Outcomes Management Program
President, Doctor of Pharmacy class of 2000

2002-2003
1999-2000

COMPUTER/TECHNICAL SKILLS

Operating systems: Microsoft Windows and Mac Operating Systems
Application software: MS Word, MS Power Point, MS Excel, Pages, Numbers, Keynote
Electronic Health Records and Pharmacy programs: EPIC, Sunrise XA (Eclipsys), CPCS (Meditech), MS Meds, Omnicell WorkflowRx, Anesthesia Workstations, Secure Vault, Health Robotics ivSoft.

AFFILIATIONS AND COMMITTEES

Member of ASHP Section Advisory Group on Management of the Pharmacy Enterprise
Member of the International Pharmaceutical Federation (FIP) Hospital Pharmacy
Member of the North Carolina Association of Pharmacists
Member of the DUHS Universal Influenza Taskforce
Member of the DUH Medication Safety Committee
Member of the DUH Preoperative Core Safety Committee
Member of the American Society of Health-System Pharmacists (ASHP)
Past member of the Orlando Health Corporate Safety Team
Past member of the Orlando Health Pharmacotherapy Committee
Past member of the Orlando Health Management Advisory Committee (MAT)
Past member of the Orlando Health Corporate Pharmacy Council
Past member of Policy and Procedure Development Committee at Orlando Health
Past Member of ASHP Section Advisory Group on Quality and Compliance
Past member of ASHP Section Advisory Group on Financial Management and Reimbursement
Past member of Tennessee Society of Health-systems Pharmacists (TSHP)
Past member of ASHP New Practitioner Communications Committee

REFERENCES AVAILABLE UPON REQUEST