

**The Utah Society of Health System Pharmacists and University of Utah Hospitals and Clinics Present:  
2016 Resident Continuing Pharmacy Education Series**

**Target Audience:** Pharmacists, pharmacy technicians, pharmacy students, and other health professionals

<b>Date</b>	<b>Time &amp; Location</b>	<b>Presenter</b>	<b>Title, Objectives &amp; ACPE UAN</b>
3/8 Tue.	HSEB 3515B at 3:00 pm	Tonya Smith, PharmD  Mentor: Michael Filtz, PharmD, BCOP	<p style="text-align: center;"><b>The DIFFiculty with <i>Clostridium difficile</i>: Treating and Preventing the Spread of Infection</b> <b>0167-0000-16-023-L01-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Identify antibiotics and risk factors that may contribute to the development of <i>Clostridium difficile</i> infections.</li> <li>2. Classify the severity of <i>Clostridium difficile</i> infection.</li> <li>3. Compare and contrast the various treatment options for <i>Clostridium difficile</i> infections.</li> <li>4. Understand the role of the microbiome in prevention and treatment of <i>Clostridium difficile</i> infection.</li> </ol> <p style="text-align: right;"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Describe the ongoing burden of <i>Clostridium difficile</i> infections.</li> <li>2. Recognize antibiotics that are commonly implicated in causing <i>Clostridium difficile</i> infections.</li> <li>3. Compare cost and availability of various products used for the treatment of <i>Clostridium difficile</i> infections.</li> </ol>
3/8 Tue.	HSEB 3515B at 4:00 pm	Vidya Pugazhenth, PharmD  Mentor: Zubin Bhakta, PharmD & Dave Young, PharmD	<p style="text-align: center;"><b>What's the "D"eal with Vitamin D? 0167-0000-16-022-L01-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Define what constitutes vitamin D insufficiency and deficiency</li> <li>2. Compare and contrast the various forms of vitamin D supplementation and dosing regimens</li> <li>3. Evaluate the role of vitamin D supplementation for two extra-skeletal health benefits</li> <li>4. Identify two unique patient populations for whom assessing vitamin D status may be beneficial based on current literature</li> </ol> <p style="text-align: right;"><u>Technician Objectives</u></p> <ol style="list-style-type: none"> <li>1. Recall two common risk factors that can lead to vitamin D deficiency</li> <li>2. Recognize the differences between various forms of vitamin D supplementation available</li> <li>3. List two potential adverse effects associated with vitamin D Supplementation</li> </ol>
3/10 Thur.	HSEB 2110 at 3:00 pm	Stacy Prelewicz, PharmD  Mentor: Jeff Gilreath, PharmD, BCOP	<p style="text-align: center;"><b>ITP Wars: Return of the Petechiae? See TPO! 0167-0000-16-019-L01-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Explain the pathophysiology of immune thrombocytopenic purpura (ITP)</li> <li>2. Determine criteria required for prescribing a thrombopoietin (TPO) receptor agonist to patients with ITP</li> <li>3. Develop 2 common side effects of the TPO receptor agonist, romiplostim and eltrombopag</li> </ol> <p style="text-align: right;"><u>Technician Objectives</u></p> <ol style="list-style-type: none"> <li>1. Define ITP and its clinical presentation</li> <li>2. Recognize common medications used for treatment of ITP</li> <li>3. Describe 2 common side effects of the TPO receptor agonists, romiplostim and eltrombopag</li> </ol>

3/10 Thur.	HSEB 2110 at 4:00 pm	Alyson Clough, PharmD  Mentor: Michael Filtz, PharmD, BCOP	<p align="center"><b>You Down With PJP? Yeah You Know. . .PJP Prophylaxis in Oncology and Corticosteroid Patients 0167-0000-16-005-L01-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Identify patient risk factors for <i>Pneumocystis jiroveci</i> pneumonia (PJP)</li> <li>2. Compare and contrast available drug agents for the prevention of PJP including mechanism of action, dosing, and side effect profile of each agent</li> <li>3. Construct a prophylaxis plan for a patient requiring PJP prophylaxis</li> <li>4. Formulate a monitoring plan for a patient requiring PJP prophylaxis</li> </ol> <p align="right"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>1. List drug agents used for the prevention of PJP</li> <li>2. Describe cost differences between agents used for prevention of PJP</li> <li>3. Recognize appropriate storage and dispensing procedure for medications used for PJP prophylaxis</li> </ol>
3/15 Tue.	HSEB 3515B at 3:00 pm	Emma Carroll, PharmD  Mentor: Cole Sloan, PharmD, BCPS	<p align="center"><b>Yes, we NarCAN! Pharmacy's Antidote to Opioid Overdoses 0167-0000-16-004-L01-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Describe the mechanism of action and monitoring parameters of naloxone</li> <li>2. Compare and contrast the utilization of naloxone in the outpatient and inpatient setting</li> <li>3. Evaluate pharmacokinetics of naloxone and common opioids</li> <li>4. Educate patients and caregivers to properly administer naloxone</li> </ol> <p align="right"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Describe the FDA approved dosage forms of naloxone</li> <li>2. Identify patients who may benefit from naloxone counseling from a pharmacist</li> <li>3. Interpret the laws related to pharmacy and dispensing of naloxone in Utah</li> <li>4. Manage the distribution of naloxone in the inpatient and outpatient settings</li> </ol>
3/15 Tue.	HSEB 3515 at 4:00 pm	Sarah Yeager, PharmD  Mentor: Nicole Kenyon, PharmD	<p align="center"><b>Tic – TAC – Toe: How to Pick a Winning Tacrolimus Formulation for your Patient 0167-0000-16-026-L01-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Compare and contrast the pharmacokinetics of all three tacrolimus formulations</li> <li>2. Describe the different side effect profiles of each tacrolimus formulation</li> <li>3. Formulate dosing recommendations for safe and equivalent conversions between oral and IV formulations</li> <li>4. Discuss possible compliance benefits with one-daily tacrolimus</li> </ol> <p align="right"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Identify available tacrolimus formulations and the differences in available dosing</li> <li>2. Recognize which formulations come as IV, suspension, or can be crushed</li> <li>3. List a benefit of using a once-daily tacrolimus formulation</li> </ol>
3/17 Thurs.	HSEB 3515B at 3:00 pm	Lauren Holesh, PharmD  Mentors: Kavish Choudhary, PharmD & Sarah Bamford, PharmD	<p align="center"><b>Don't be the Weakest Link: Understanding Supply Chain and Inventory Management 0167-0000-16-011-L04-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Define supply chain and describe the different ways to procure drug product</li> <li>2. Analyze inventory principles and how they impact purchasing patterns</li> <li>3. Evaluate cost containment opportunities with inventory initiatives</li> <li>4. Assess challenges facing supply chain today</li> </ol> <p align="right"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Discuss the different ways to procure drug product</li> <li>2. Outline cost containment opportunities through inventory management</li> <li>3. List three challenges facing the pharmacy supply chain today</li> </ol>

3/17 Thurs.	HSEB 3515B at 4:00 pm	Benjamin Witt, PharmD, BCPS  Mentor: Erin Fox, PharmD, FASHP	<p align="center"><b>Can't Touch This! USP Chapter &lt;800&gt;: Handling of Hazardous Drugs 0167-0000-16-025-L03-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Summarize the background and purpose of USP &lt;800&gt;</li> <li>2. Discuss the impact USP &lt;800&gt; will have on USP &lt;795&gt; and USP &lt;797&gt;</li> <li>3. Differentiate between and apply the recommendations for proper deactivation, decontamination, cleaning, and disinfection as outlined in USP &lt;800&gt;</li> <li>4. Recommend appropriate personal protective equipment (PPE) for a given scenario</li> </ol> <p align="right"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Summarize the background and purpose of USP &lt;800&gt;</li> <li>2. Identify the characteristics that would classify a drug as hazardous, according to National Institute for Occupational Safety and Health (NIOSH)</li> <li>3. Identify the personal protective equipment (PPE) recommendations listed with USP &lt;800&gt;</li> </ol>
3/29 Tue.	HSEB 3515B at 3:00 pm	Dawnyle Kelley, PharmD  Mentor: Dave ElHalta, PharmD	<p align="center"><b>To Err is not Always Entirely Human - Key Considerations of the Medication Use System: A Pharmacy Informatics Perspective 0167-0000-16-020-L04-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Evaluate human factor impact on clinical decision support design</li> <li>2. Analyze the psychology of new technology adoption in health care</li> <li>3. Describe the key factors influencing satisfaction with technology and workflow</li> <li>4. Outline 3 considerations when developing a clinical decision support tool</li> </ol> <p align="right"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Evaluate human factor impact on clinical decision support design</li> <li>2. Analyze the psychology of new technology adoption in health care</li> <li>3. Understand the key factors influencing satisfaction with technology and workflow</li> </ol>
3/29 Tue.	HSEB 3515B at 4:00 pm	Nicholas Cox, PharmD  Mentor: Erin Fox, PharmD, FASHP	<p align="center"><b>Bio-Law-gy 101: Biosimilars and the Law 0167-0000-16-007-L03-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Summarize the federal and state legislation that relates to the approval and use of biosimilars</li> <li>2. Describe the potential clinical, legal, and financial challenges/impacts of the emerging biosimilar market</li> <li>3. Develop a strategy to appropriately interchange a biosimilar and a biologic</li> <li>4. Identify resources available for additional information on biotherapeutic agents</li> </ol> <p align="right"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Define the following terms: biologic, biosimilar, competitive biologic, bioequivalence, interchangeable</li> <li>2. Provide an example of three biologics</li> <li>3. Describe the financial impacts of the emerging biosimilar market</li> </ol>
3/30 Wed.	HSEB 3515BB at 3:00 pm	Erik Harrington, PharmD  Mentors: Sara Deholl, PharmD, BCOP	<p align="center"><b>Onc Wars - A Mechanistic Awakening: Review of Palbociclib, Cobimetinib, Elotuzumab, Trifluridine/Tipiracil 0167-0000-16-021-L01-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Describe the FDA indication, mechanism of action, and pertinent ADME for newly approved oncology drugs</li> <li>2. Evaluate potential significant drug interactions and appropriate management of therapy</li> <li>3. Design treatment plans and monitoring parameters for the new agents</li> <li>4. Determine appropriate place in therapy based on current available treatments</li> </ol> <p align="right"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Recall brand and generic names for newly approved oncology drugs</li> <li>2. Demonstrate knowledge of proper storage and preparation of newly approved oncology drugs</li> <li>3. Describe product formulations and costs of newly approved oncology drugs</li> </ol>

3/30 Wed.	HSEB 3515B at 4:00 pm	Shelly Hummert, PharmD  Mentor: David Stenebjerg, PharmD & Courtney Cavalieri, PharmD, BCOP	<p style="text-align: center;"><b>Checking the Brakes on Cancer: Advances in Immunotherapy 0167-0000-16-012-L01-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Differentiate the mechanisms of checkpoint inhibitors in the immune system</li> <li>2. Evaluate the role of checkpoint inhibitors and their place in the treatment of oncologic diseases</li> <li>3. Identify unique disease response patterns associated with checkpoint inhibitors</li> <li>4. Compare and recognize toxicity profiles of checkpoint inhibitors and recommend a management plan</li> </ol> <p style="text-align: right;"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Describe the rationale for checkpoint inhibitors</li> <li>2. Distinguish between specific checkpoint inhibitors and their associated administration schedules and costs</li> <li>3. Explain the proper storage, handling, and preparation of checkpoint inhibitors</li> <li>4. Select an appropriate patient assistance program for immunotherapy and identify patient specific medications</li> </ol>
4/5 Tue.	HSEB 3515B at 3:00 pm	Abby Coleman, PharmD  Mentor: Gary Davis, PharmD	<p style="text-align: center;"><b>Turn the <i>Bleed</i> Around 0167-0000-16-006-L01-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Review traditional direct oral anticoagulant (DOAC) reversal strategies</li> <li>2. Describe the mechanisms of action for the new DOAC reversal agents</li> <li>3. Evaluate the literature available for the new DOAC reversal agents</li> <li>4. Develop a therapeutic plan for utilizing these agents in clinical practice</li> </ol> <p style="text-align: right;"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Review the direct oral anticoagulants (DOAC) currently available</li> <li>2. Describe how the new DOAC reversal agents should be stored</li> <li>3. Recall the costs of the new DOAC reversal agents</li> </ol>
4/5 Tue.	HSEB 3515B at 4:00 pm	Ashley Hedges, PharmD, BCPS  Mentor: Heidi Simons, PharmD, BCPS Wayne Shipley, PharmD, BCPS	<p style="text-align: center;"><b>I'm Clear, You're Clear, We're All Clear: Lactate Clearance as a Marker of Sepsis Therapy 0167-0000-16-010-L01-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Identify the traditional makers of inadequate tissue oxygenation in septic patients</li> <li>2. Recognize the mechanisms contributing to hyperlactemia in sepsis</li> <li>3. Evaluate the advantages and disadvantages of using lactate clearance to gauge prognosis of septic patients</li> <li>4. Describe effects of select medications on lactate levels</li> </ol> <p style="text-align: right;"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Define lactate and why monitoring of lactate is important in critically ill patients</li> <li>2. Identify intravenous fluids and solutions that contain lactate</li> <li>3. List medications that may influence lactate levels</li> </ol>

4/07 Thur.	HSEB 2110 at 3:00 pm	Katherine Bliven PharmD  Mentor: Russell Benefield, PharmD	<p style="text-align: center;"><b>Invasive Aspergillosis: A Review of the Fungus Among Us 0167-0000-16-002-L01-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. List risk factors for invasive aspergillosis</li> <li>2. Interpret fungal biomarkers to determine the probability of invasive aspergillosis</li> <li>3. Compare the mechanism of action, doses and monitoring for different medication classes used in the treatment of invasive aspergillosis</li> <li>4. Develop an appropriate treatment strategy for a patient with invasive aspergillosis</li> </ol> <p style="text-align: right;"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Recognize brand and generic names for medications used to treat aspergillosis</li> <li>2. List formulations available for the medications used to treat aspergillosis</li> <li>3. Describe the proper preparation and storage of the common medications used to treat aspergillosis</li> </ol>
4/07 Thur.	HSEB 2110 at 4:00 pm	Hoa Huynh, PharmD  Mentor: Ann Marie Prazak, PharmD, BCPS Donald Alexander, PharmD	<p style="text-align: center;"><b>Can You Overcome the Resistance? New Agents for Resistant Gram-negative Bacteria 0167-0000-16-017-L01-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Describe the mechanisms of resistance of gram-negative bacteria</li> <li>2. Compare and contrast the pharmacokinetic and spectrum of activity of new antibiotics for resistant gram-negative bacteria</li> <li>3. Analyze the roles of new antibiotic agents for resistant gram-negative infection</li> <li>4. Formulate an antibiotic regimen for a patient with a resistant gram-negative infection</li> </ol> <p style="text-align: right;"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>1. List the 4 mechanisms of resistance of gram-negative bacteria</li> <li>2. Identify the brand names, generic names, and cost of the new agents for resistant gram-negative bacteria</li> <li>3. Describe the preparation and storage of the new antibiotic agents for resistant gram-negative bacteria</li> </ol>
<b>Saturday Session Requires Online Registration by April 2, 2015 to reserve your seat since seating is limited! Go to <a href="http://www.ushp.org">www.ushp.org</a> to register</b>			
4/9 Sat.	HSEB 3515B at 8:00 am	Katie Traylor, PharmD  Mentor: Laura Shane- McWhorter, PharmD, BCPS, BC-ADM, CDE, FASCP, FAADE	<p style="text-align: center;"><b>Old Dogs and New Tricks: A Comparison of Available Insulin Preparations 0167-0000-16-024-L01-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Review recent changes to the insulin market in the United States</li> <li>2. Discuss clinical pearls and cost information for available insulin preparations</li> <li>3. Analyze comparative efficacy and safety data available for various insulin preparations</li> <li>4. Individualize the selection of insulin preparation for patients based on clinical and financial data</li> </ol> <p style="text-align: right;"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Review recent changes to the insulin market in the United States</li> <li>2. Discuss clinical pearls and cost information for available insulin preparations</li> <li>3. Apply available financial resources to help patients receive affordable insulin</li> </ol>

4/9 Sat.	HSEB 3515B at 9:00 am	Kelsee Geurts, PharmD  Mentor: Anthony Dalpiaz, PharmD	<p align="center"><b>It's Gut Check Time: New Treatment Options for Irritable Bowel Syndrome 0167-0000-16-009-L01-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>Describe irritable bowel syndrome (IBS)</li> <li>Compare and contrast the classification types of IBS</li> <li>Analyze the symptoms of IBS and specific alarm features that might require further evaluation</li> <li>Evaluate new pharmacologic treatment options available for IBS</li> <li>Design a treatment plan for a patient who presents with symptoms of irritable bowel syndrome</li> </ol> <p align="right"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>Define irritable bowel syndrome (IBS)</li> <li>Differentiate between IBS-C (constipation predominant) and IBS-D (diarrhea predominant)</li> <li>Identify the brand and generic names of medications available to treat IBS</li> </ol>
4/9 Sat.	HSEB 3515B at 10:00 am	Breanne Garcia-Walthers, PharmD  Mentor: Laura Shane McWhorter, PharmD, BCPS, BC-ADM, CDE, FASCP, FAADE	<p align="center"><b>NASH in a Flash: Causes, Treatment, and Relevance in Primary Care 0167-0000-16-027-L01-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>State why pharmacists should demonstrate knowledge of non-alcoholic steatohepatitis (NASH), including definitions, prevalence, and associated co-morbidities</li> <li>Distinguish patient-specific criteria that may justify screening and diagnosis of NASH</li> <li>Evaluate the pros and cons of different drugs used to treat NASH</li> <li>Formulate a treatment regimen for NASH, including pharmacologic and non-pharmacologic modalities</li> </ol> <p align="right"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>Demonstrate a working knowledge of NASH and its causes</li> <li>Identify non-pharmacologic strategies for managing NASH</li> <li>Recognize drugs used and their therapeutic role in treating NASH</li> </ol>
4/9 Sat.	HSEB 3515B at 11:00 am  (Followed by time to purchase lunch on your own.)	Ashley Kappenman, PharmD  Mentor: Barbara Crouch, PharmD	<p align="center"><b>One Pill Can Kill: The Role of the Poison Control Center and Medications Toxic in Small Doses 0167-0000-16-018-L05-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>Evaluate the role and impact of poison control centers</li> <li>Describe medications or compounds that can be toxic in a single pill or dose as well as the mechanism of toxicity</li> <li>Formulate a treatment plan for patients who have ingested medications or compounds that can be toxic in a single pill or dose</li> <li>Identify strategies that pharmacists can utilize to help prevent poisonings</li> </ol> <p align="right"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>State the role of poison control centers</li> <li>Identify medications or compounds that can be toxic in a single pill or dose</li> <li>Describe strategies that can be used to help prevent poisonings</li> </ol>
4/9 Sat.	HSEB 3515B at 1:00 pm	William Black, PharmD  Mentor: Linda Tyler, PharmD, FASHP	<p align="center"><b>I D.A.R.E. You to Care: Preventing, Detecting, and Acting on Controlled Substance Diversion 0167-0000-16-001-L03-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>Identify individuals showing behavior indicative of diversion</li> <li>Develop strategies to decrease the risk of diversion</li> <li>Evaluate the potential for diversion given a set of circumstances</li> <li>Explain the Drug Enforcement Agency's requirements for disclosing diversion events</li> </ol> <p align="right"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>List the negative impacts of controlled substance diversion</li> <li>Identify individuals showing behavior indicative of diversion</li> <li>List the medication classes most likely to be diverted</li> </ol>

4/9 Sat.	HSEB 3515B At 2:00 pm	Ashley Bowden, PharmD  Mentors: Joshua Sessions, PharmD	<p style="text-align: center;"><b>A Heart to Heart about Newly Approved Cardiovascular Medications in 2015 0167-0000-16-003-L01-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Discuss the pharmacologic categories and mechanisms of action for cardiovascular medications approved in 2015</li> <li>2. Communicate key clinical information when counseling patients on the new cardiovascular medications</li> <li>3. Integrate the evidence presented to select the appropriate therapy based on three clinical examples</li> <li>4. Consider where the new cardiovascular agents fit within current guideline-based standard therapies</li> </ol> <p style="text-align: right;"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>1. List the brand and generic names for cardiovascular therapeutic agents approved in 2015</li> <li>2. Discuss the labeled indications for the newly approved agents</li> <li>3. Identify the proper storage and handling for cardiovascular medications approved in 2015</li> </ol>
4/9	HSEB 3515B At 3:00 pm	Kristine Ferreira, PharmD  Mentor: Dave Young, PharmD	<p style="text-align: center;"><b>Don't Hold Your Breath – A Review of New Aerosolized Agents and Delivery Devices in COPD 0167-0000-16-008-L01-P/T</b></p> <p><u>Pharmacist Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Classify patients according to risk and determine proper therapy</li> <li>2. Compare and contrast the mechanism of action and adverse effects of long acting bronchodilators</li> <li>3. Formulate a treatment and monitoring plan for new COPD medication based on patient specific factors</li> <li>4. Explain patients on the proper use of all inhaled drug delivery systems</li> </ol> <p style="text-align: right;"><u>Technician Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Identify two risk factors for COPD</li> <li>2. Identify the generic name when given a brand name of a new COPD medication</li> <li>3. Describe the difference between a metered dose inhaler (MDI) and a drug powder inhaler</li> </ol>

**Registration, Info & Fees:** All classes are one hour. The cost is \$60 for pharmacists and \$20 for technicians to attend regardless of the number of hours or sessions attended, and this fee can be paid online at [www.ushp.org](http://www.ushp.org). No RSVP is required for the weekday sessions, but registration for the Saturday event on 4/9 is required to ensure a sufficient number of handouts are printed. Seating is limited. To receive CE (Continuing Education) credit, you must be a USHP member. If you are interested in joining USHP, please visit our website [www.ushp.org](http://www.ushp.org) and join online.

**Credit Hours:** Through attending this program, up to 23.0 contact hours (0.23 CEUs) can be attained. Participants must be a member of USHP, sign in at each program, complete evaluation forms, complete and pass the post-test with a 75% or better, and complete an Attendance Verification Form at the conclusion of all programs.

**Special Accommodations:** If you are in need of any special accommodation, please contact us a minimum of 2 days prior to the program in order to make arrangements at the below listed contact.

**Commercial Support:** No commercial support was received for this program.

**Questions?** Contact Shantel Mullin at [shantel.mullin@hsc.utah.edu](mailto:shantel.mullin@hsc.utah.edu) or (801) 587-3966.



The Utah Society of Health-System Pharmacists is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education.