Request from the American College of Clinical Pharmacy to the
Board of Pharmacy Specialties and the
Critical Care Pharmacy and Pharmacotherapy Specialty Councils for the
Approval of the 2017 ACCP Clinical Reasoning Series in Critical Care Pharmacy Offering for
Dual Recertification in Critical Care Pharmacy and Pharmacotherapy

Background
This document summarizes the rationale and criteria for a request from the American College of Clinical Pharmacy (ACCP) for approval by the Board of Directors of the Board of Pharmacy Specialties (BPS), the Specialty Council on Critical Care Pharmacy, and the Specialty Council on Pharmacotherapy, to offer dual recertification credit in Critical Care Pharmacy and Pharmacotherapy for ACCP’s 2017 Clinical Reasoning Series in Critical Care Pharmacy program titled Management of Patients with Acute Respiratory Distress Syndrome.* This activity will be presented live during the 2017 ACCP Annual Meeting, to be held October 7-10 in Phoenix, Arizona. The schedule for the live presentation will be determined within the next few weeks. The home study version of the activity will be released on or about November 1, 2017. The activity will offer 6.0 hours of continuing pharmacy education (CPE) credit upon successful completion of a Web-based posttest.

Topic selection for the aforementioned program reflects content that is timely and of relevance and value to the daily practice of both Board Certified Critical Care Pharmacists (BCCCPs) and Board Certified Pharmacotherapy Specialists (BCPSs). ACCP’s goal for this series is to deliver programs that will meaningfully contribute to the advancement of the pharmacy specialist’s knowledge, skills, and clinical reasoning. A timed agenda and list of proposed faculty accompany this program proposal.

*Note that a separate educational activity, the Clinical Reasoning Series in Pharmacotherapy, will be developed and delivered at the 2017 ACCP Annual Meeting (and subsequently made available for home study) for CPE credit toward recertification in pharmacotherapy only.

Clinical Reasoning Series in Critical Care Pharmacy
Management of Patients with Acute Respiratory Distress Syndrome

Target Audience
BCCCPs and BCPSs providing care to patients with acute respiratory distress syndrome.

Rationale and Criteria for Topic Selection
The primary criterion for topic selection is that the content is timely and is of relevance and value to the daily practice of both BCCCPs and BCPSs. The goal is to develop programs that will meaningfully contribute to the advancement of the pharmacy specialists’ knowledge, skills, and clinical reasoning.

Both BCCCPs and BCPSs are involved in the management of patients with acute respiratory distress syndrome of all severities. These specialists are responsible for the provision of services in the inpatient setting, where they initiate, monitor, and adjust nonpharmacologic and pharmacologic treatment plans for patients with acute respiratory distress syndrome. Given the need for rapid decision-making regarding treatment of patients with acute respiratory distress syndrome, the complexity of treating these patients, and the evolving literature regarding management, the program titled Management of Patients with Acute Respiratory Distress Syndrome will cover the most recent treatment strategies and summarize their place in the contemporary management of patients with severe respiratory failure.

Program Description
This program will address the following proposed topics:
- overview of epidemiology and pathophysiology of acute respiratory distress syndrome (ARDS)
- diagnosis, etiology, and treatment goals of ARDS
- fluid management
- ventilator management: standard and alternative strategies for ARDS
- use of prone positioning and neuromuscular blocking agents
- salvage therapies employed for severe ARDS
- therapies that have been tried and failed
- long-term outcomes of survivors

Learning Objectives
The proposed learning objectives for the program follow.

At the conclusion of the activity, the participant should be able to:
1. describe the epidemiology and pathophysiology of acute respiratory distress syndrome (ARDS);
2. discuss diagnosis, etiology and overall treatment goals in the management of patients with ARDS;
3. critically appraise the published literature surrounding the management of ARDS including ventilator and fluid management and use of neuromuscular blocking agents and prone positioning;
4. select appropriate salvage therapies including the use of corticosteroids, inhaled vasodilators, and extracorporeal membrane oxygenation in patients with severe ARDS; and
5. design treatment regimens that optimize patient outcomes.

Alignment with the Critical Care Pharmacy and Pharmacotherapy Content Outlines

The program is designed to address multiple domains outlined in the BPS content outlines for both the critical care pharmacy and pharmacotherapy specialties. The table below identifies the domains of the two specialties addressed by each of the proposed presentations.

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<th>Proposed Presentation</th>
<th>BPS Content Outlines: Domains Addressed</th>
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<td>Critical Care Pharmacy Specialty</td>
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<td>Overview of epidemiology and pathophysiology, of acute respiratory distress syndrome (ARDS)</td>
<td>Domain 1: Clinical Skills and Therapeutic Management</td>
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<td>Diagnosis, etiology, and treatment goals of ARDS</td>
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<td>Fluid management</td>
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<td>Ventilator management: standard and alternative strategies</td>
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<td>Use of prone positioning and neuromuscular blocking agents for ARDS</td>
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<td>Domain 1: Patient-Centered Pharmacotherapy</td>
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Further, the proposed subject matter addresses the following systems and patient care problems within the content outline for the pharmacotherapy specialty:

**Systems:**
pulmonary, cardiovascular, neurological

**Patient care problems:**
acute severe respiratory failure
pain, analgesia, delirium
fluid balance
therapeutic paralysis

Additional Quality Measures to Ensure Content Applicability to the Two Specialties

Additional quality measures are in place to ensure that the content of the program is applicable to both specialties. The program will be peer reviewed by end-user reviewers representing both pharmacy specialties. ACCP staff will work with the program faculty and BCCCP and BCPS reviewers to ensure that the program will be of value to the professional development and daily practice of both Board Certified Critical Care Pharmacists and Board Certified Pharmacotherapy Specialists.
Proposed Learning Objectives:
At the conclusion of the program, the participant should be able to:

1. Describe the epidemiology and pathophysiology of acute respiratory distress syndrome (ARDS);
2. Discuss diagnosis, etiology and overall treatment goals in the management of patients with ARDS;
3. Critically appraise the published literature surrounding the management of ARDS including ventilator and fluid management and use of neuromuscular blocking agents and prone positioning;
4. Select appropriate salvage therapies including the use of corticosteroids, inhaled vasodilators, and extracorporeal membrane oxygenation in patients with severe ARDS; and
5. Design treatment regimens that optimize patient outcomes.

*Live program presentation during ACCP 2017 Annual Meeting, October 7-10, Phoenix, Arizona; presentation date to be determined. Home study release on or about November 1, 2017.

Proposed Program Agenda

8:30 am: Introduction (15 min)  
Amy L. Dzierba, PharmD, FCCM, BCPS, BCCCP  
New York-Presbyterian Hospital  
Columbia University Irving Medical Center  
New York, New York

8:45 am: Overview of epidemiology and pathophysiology of acute respiratory distress syndrome (ARDS) (30 min)  
Potential Speaker: Mitchell Buckley, PharmD, FASHP, FCCM, FCCP, BCPS, BCCCP  
Banner Good Samaritan Medical Center  
Phoenix, Arizona

9:15 am: Diagnosis, etiology, and treatment goals of ARDS (30 min)  
Potential Speaker: Ishaq Lat, PharmD, FCCM, FCCP, BCPS, BCCCP  
University of Chicago Medical Center  
Chicago, Illinois

9:45 am: Ventilator management: standard and alternative strategies (30 min)  
Potential Speaker: Ishaq Lat, PharmD, FCCM, FCCP, BCPS, BCCCP  
University of Chicago Medical Center  
Chicago, Illinois

10:15 am: Fluid management (30 min)  
Potential Speaker: Kevin Anger, PharmD, BCPS  
Brigham and Women’s Hospital  
Boston, Massachusetts

10:45 am: Break

11:00 am: Use of prone positioning and neuromuscular blocking agents for ARDS (90 min)  
Potential Speaker: Mitchell Buckley, PharmD, FASHP, FCCM, FCCP, BCPS, BCCCP  
Banner Good Samaritan Medical Center  
Phoenix, Arizona

12:30 pm: Lunch (90 min)

2:00 pm: Salvage therapies employed for severe ARDS (90 min)  
Potential Speaker: Kevin Anger, PharmD, BCPS  
Brigham and Women’s Hospital  
Boston, Massachusetts
3:30 pm: Break

3:45 pm: Therapies that have been tried and failed (30 min)
Potential Speaker: Ishaq Lat, PharmD, FCCM, FCCP, BCPS, BCCCP
University of Chicago Medical Center
Chicago, Illinois

4:15 pm: Long-term outcomes of survivors (30 min)
Potential Speaker: Ishaq Lat, PharmD, FCCM, FCCP, BCPS, BCCCP
University of Chicago Medical Center
Chicago, Illinois

4:45 pm: Closing remarks (15 min)
Amy L. Dzierba, PharmD, FCCM, BCPS, BCCCP
New York-Presbyterian Hospital
Columbia University Irving Medical Center
New York, New York

5:00 pm: Adjourn