

2018 Sioux Falls Winter Residents' CE Seminar

February 10th, 2018

7:45am – 1:00pm CST

*Avera Orthopedic Institute – Avera McKennan Campus – Classroom #3
Sioux Falls, SD*

Joint Providers

**South Dakota Society of Health-System Pharmacists
South Dakota State University College of Pharmacy & Allied Health Professions**



The South Dakota State University College of Pharmacy and Allied Health Professions is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education. The Universal Program Identification Numbers are listed below.

Agenda: *Saturday, February 10, 2018*

7:45-8:00am *Welcome / Registration*

8:00-8:30am **Acute Pain Management: Patients Using Buprenorphine or Methadone**

Alex Smith, Pharm.D.

(Knowledge-based CPE)

#0063-9999-18-001-L01-P .05 CEUs

#0063-9999-18-001-L01-T .05 CEUs

8:30-9:00am **Fixed-Dose Four-Factor Prothrombin Complex Concentrate: Does One Size Fit All?**

Alyson Schwebach, Pharm.D.

(Knowledge-based CPE)

#0063-9999-18-002-L01-P .05 CEUs

#0063-9999-18-002-L01-T .05 CEUs

9:00-9:30am **The ART of Antiretroviral Therapy in Critically-Ill Patients with HIV**

Tyler Finnochio, Pharm.D.

(Knowledge-based CPE)

#0063-9999-18-003-L02-P .05 CEUs

#0063-9999-18-003-L02-T .05 CEUs

9:30-10:00am **Bad Bugs in the Blood: *Staphylococcus aureus* bacteremia**

Megan L. Robinson, Pharm.D.

(Knowledge-based CPE)

#0063-9999-18-004-L01-P .05 CEUs

#0063-9999-18-004-L01-T .05 CEUs

10:00-10:15am *Break*

10:15-10:45am **Procalcitonin: A Review**

Crystal Wright, Pharm.D.

(Knowledge-based CPE)

#0063-9999-18-005-L01-P .05 CEUs

#0063-9999-18-005-L01-T .05 CEUs

10:45-11:15am **High Blood Pressure Redefined**

Joseph Statz, Pharm.D.

(Knowledge-based CPE)

#0063-9999-18-006-L01-P .05 CEUs

#0063-9999-18-006-L01-T .05 CEUs

11:15-11:45am **Clinical Controversies for Diuresis in Heart Failure**

Brianna Jansma, Pharm.D.

(Knowledge-based CPE)

#0063-9999-18-007-L01-P .05 CEUs

#0063-9999-18-007-L01-T .05 CEUs

11:45-12:15pm **Naltrexone for Prevention of Relapse to Opioid Dependence**

Tyler Fenton, Pharm.D.

(Knowledge-based CPE)

#0063-9999-18-008-L01-P .05 CEUs

#0063-9999-18-008-L01-T .05 CEUs

12:15-12:45pm **Update on Management of Nausea and Vomiting for Cancer Patient**

Kai Zheng, Pharm.D.

(Knowledge-based CPE)

#0063-9999-18-009-L01-P .05 CEUs

#0063-9999-18-009-L01-T .05 CEUs

12:45-1:00pm *Wrap-up / evaluations / CE Credit reconciliation*

It is the policy of the South Dakota State University College of Pharmacy that all continuing education programming present evidence-based information that is non-commercial and professionally objective, not promoting, nor appearing to promote, any specific product or service.

Target Audience: This program is suitable for pharmacists and pharmacy technicians – hospital, community pharmacy and consulting.

C.E. Registration: Please register by clicking the link provided within the e-mail or posted on www.sdshp.com. Preregistration is important, since this will allow for handouts to be emailed out in advance of the meeting. If prospective attendees have any problem accessing the registration site from work, they should be able to access later from home computer.

C.E. Handouts: Handouts / learning assessment will be available electronically for participants.

C.E. Credit: Successful completion of each CE session requires continuous attendance, signing the roster, completion of the CPE *Verification Form*, and completion of the *Evaluation/Learning Assessment* form. Credit may be earned for individual sessions. A total of 0.45 CEUs (4.5 contact hours) of continuing pharmacy education credit may be earned at this seminar.

Pharmacists and Technicians must enter their **CPE ID number** and their personal **MM/DD** – on their *Verification Forms* to facilitate the credit award process. Significant delays in providing this information may jeopardize credit award. *Credit uploaded to participant eProfile accounts expected within 14 business days. All participants should subsequently check their NABP accounts to verify appropriate credit upload.*

Faculty Presenters:

Alex Smith, Pharm.D., PGY1 Pharmacy Resident, Sanford USD Medical Center, Sioux Falls, SD

“Pain Management: Patients Using Buprenorphine or Methadone”

Pharmacist learning objectives: 1. Explain the mechanistic differences between buprenorphine and methadone; 2. Describe recommendations for treating acute pain when a patient uses buprenorphine or methadone.

Technician learning objectives: 1. Describe why acute pain management in patients using buprenorphine or methadone can be difficult for healthcare providers; 2. List the different opioid receptors within the body.

Alyson Schwebach, Pharm.D., PGY2 Critical Care Pharmacy Resident, Avera McKennan Hospital & University Health Center, Sioux Falls, SD

“Fixed-Dose Four-Factor Prothrombin Complex Concentrate: Does One Size Fit All?”

Pharmacist learning objectives: 1. Describe potential advantages of fixed-dose four-factor prothrombin complex concentrate (4F-PCC) over standard dosing; 2. Evaluate the safety and efficacy of fixed-dose 4F-PCC for emergent warfarin reversal based on available literature.

Technician learning objectives: 1. Identify a potentially serious adverse event associated with 4F-PCC use; 2. Describe how different 4F-PCC dosing strategies may impact dose preparation.

Tyler Finocchio, Pharm.D. BCPS, PGY2 Critical Care Pharmacy Resident, Avera McKennan Hospital & University Health Center, Sioux Falls, SD

“The ART of Antiretroviral Therapy in Critically-Ill Patients with HIV”

Pharmacist learning objectives: 1. Describe available evidence regarding the initiation of antiretroviral therapy (ART) in patients newly diagnosed with HIV with or without opportunistic infections; 2. Summarize the continuation of ART in the inpatient setting for patients previously diagnosed with HIV and taking a complete antiretroviral regimen; 3. Recognize relevant Drug-drug interactions between antiretroviral medications and other drugs commonly used in the inpatient setting.

Technician learning objectives: 1. Distinguish brand and generic names of HIV medications; 2. Recognize available dosage forms of HIV medications.

Megan L. Robinson, Pharm.D., PGY1 Pharmacy Resident, Sanford USD Medical Center, Sioux Falls, SD

“Bad Bugs in the Blood: Staphylococcus aureus bacteremia”

Pharmacist learning objectives: 1. Describe evidence-based practices for treatment of Staphylococcus aureus bacteremia; 2. List alternative therapies to vancomycin for MRSA bacteremia.

Technician learning objectives: 1. Describe the difference between methicillin susceptible and methicillin resistant Staphylococcus aureus; 2. Recommend appropriate hygiene/precautions required for hospital personnel when entering a patient’s room with MRSA precautions.

Crystal Wright, Pharm.D., PGY1 Pharmacy Resident, Avera McKennan Hospital & University Health Center, Sioux Falls, SD

“Procalcitonin: A Review”

Pharmacist learning objectives: 1. Identify non-infectious causes for elevated procalcitonin levels; 2. Identify patient populations in which evidence supports the use of procalcitonin levels to assist in clinical decision-making.

Technician learning objectives: 1. Identify non-infectious causes for elevated procalcitonin levels; 2. Describe advantages of de-escalation of antibiotics.

Joseph Statz, Pharm.D., PGY1 Pharmacy Resident, Avera McKennan Hospital & University Health Center, Sioux Falls, SD

“High Blood Pressure Redefined”

Pharmacist learning objectives: 1. Identify the different categories of hypertension based on blood pressure readings; 2. Evaluate patients to determine when pharmacologic blood pressure management is necessary; 3. Identify blood pressure treatment targets for patients being treated for hypertension.

Technician learning objectives: 1. Identify common medications used to treat hypertension; 2. Identify different formulations of medications used in hypertension treatment; 3. Identify and differentiate between hypertensive urgency and hypertensive emergency.

Brianna Jansma, Pharm.D., PGY1 Pharmacy Resident, Sanford USD Medical Center, Sioux Falls, SD

“Clinical Controversies in Heart Failure Diuresis”

Pharmacist learning objectives: 1. Identify differences in pharmacokinetic and pharmacodynamics parameters between loop diuretic agents; 2. Compare and contrast loop diuretic administration techniques; 3. Define diuretic resistance and explain its role in therapy; 4. Describe role of adjunctive therapies in diuresis.

Technician learning objectives: 1. Identify differences in pharmacokinetic and pharmacodynamics parameters between loop diuretic agents; 2. Compare and contrast loop diuretic administration techniques; 3. Recognize medications that may be given concomitantly with loop diuretics in diuretic-resistant patients.

Tyler Fenton, Pharm.D., PGY1 Pharmacy Resident, Avera McKennan Hospital & University Health Center, Sioux Falls, SD

“Naltrexone for Prevention of Relapse to Opioid Dependence”

Pharmacist Learning Objectives: 1. Describe the pathophysiology of opioid addiction, and summarize the challenges that patients face in preventing relapse; 2. Evaluate the effectiveness of the currently available naltrexone formulations in patients most likely to benefit from an approved opioid dependence treatment plan; 3. Identify appropriate naltrexone dosing regimens for patients that are initiated on one of the currently approved naltrexone formulations to prevent relapse of opioid addiction.

Pharmacy Technician Learning Objectives: 1. Summarize the issue of opioid misuse in this country and challenges patients face in preventing relapse; 2. Differentiate between the correct indications and dosage forms of Naltrexone.

Kai Zheng, Pharm.D., PGY1 Pharmacy Resident, Avera McKennan Hospital & University Health Center, Sioux Falls, SD

“Update on Management of Nausea and Vomiting for Cancer Patient”

Pharmacist Learning Objectives: 1. Identify the risk factors which may contribute to nausea and vomiting in cancer patients; 2. Evaluate key medications utilized in treating nausea and vomiting for cancer patients in a comprehensive treatment regimen; 3. Describe potential complications that may develop from treating nausea and vomiting for cancer patients in a comprehensive treatment regimen.

Pharmacy Technician Learning Objectives: 1. Describe the epidemiology of nausea and vomiting caused by chemotherapy; 2. Identify key medications utilized in treating nausea and vomiting for cancer patients in a comprehensive treatment regimen.

Guidance and oversight on CPE development for each presentation was provided by the following Residency Directors / mentors:

Tyler Turek, Pharm.D.

Ryan Waybright, Pharm.D.

Glenn Voss, Pharm.D.