

ACCP STUNews

ACCP Clinical Pharmacy Challenge Team Registration Deadline September 8

Clinical Pharmacy Challenge: The team registration deadline for The ACCP Clinical Pharmacy Challenge is fast approaching. Plan now to participate this fall. This unique competition offers eligible teams the opportunity to test their clinical pharmacy knowledge and skills and compete in up to four online rounds. The top eight teams will advance to the live quarterfinal competition at the 2015 ACCP Global Conference on Clinical Pharmacy in San Francisco, California.

Students are not required to be members of ACCP to participate. Team registration may be submitted [online](#) and must be initiated by a current faculty member at the respective institution. Students interested in forming a team should contact their ACCP [faculty liaison](#).

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Clinical Case:

History of Present Illness: An 80-year-old man is admitted to the hospital for intractable pain, nausea/vomiting, and inability to ambulate. He has hormone-refractory prostate cancer with metastases to the bone and spinal cord; he recently stopped chemotherapy. He describes several different types of pain: shooting pain radiating from the tumor on his spinal cord and aching at the tumor on his right femur. **Past Medical History:** Prostate cancer, hypertension, depression **Social History:** N/A **Current Medications:** Citalopram 40 mg daily x 5 years, Senna 8.6 mg twice daily x 1 year, Lisinopril 10 mg daily x 5 years, Metoprolol XL (extended release) 25 mg daily x 5 years, Oxycodone ER 40 mg every 8 hours x 1 year, Oxycodone IR 10 mg every 6 hours as needed x 1 year (usually three doses daily), Promethazine 25 mg orally every 6 hours as needed x 1 year (usually three doses daily), and Zolpidem 5 mg at bedtime as needed x 1 year (usually twice weekly) **Allergies:** No known drug allergies **Vital Signs:** HR (heart rate) 95 beats/minute; RR (respiratory rate) 15 breaths/minute; BP 130/85 mm Hg; Temp 98.6°F (37°C) Height: 72 inches (182.88 cm); weight: 68 kg (150 lb) **Laboratory Values:** Sodium 137 mEq/L; Potassium 4.2 mEq/L; BUN 44 mg/dL; SCr 2.4 mg/dL; Estimated glomerular filtration rate (MDRD [Modification of Diet in Renal Disease]) 26 mL/minute/1.73m²; Glucose (random) 142 mg/dL; Measured total calcium 11 mg/dL Albumin 2.5 g/dL; Corrected total calcium 12.2 mg/dL **Procedural Data:** MRI: Spinal cord compression caused by tumor **Abdominal radiograph:** Normal

1. The patient reports no bowel movement for the past week, despite using senna. Which is the best regimen for relieving his constipation?
2. Which drug is most appropriate for treating this patient's bone pain?
3. The oncologist considers converting this patient's current opioid therapy to methadone. Which of the patient's current medications should not be co-administered with methadone?
4. What is the most appropriate drug to treat the pain associated with this patient's spinal cord compression?
5. Since his pain is not well controlled on oxycodone, the treatment team wants to start transdermal fentanyl. Is this patient a candidate for transdermal fentanyl?

For additional case questions and explained answers click [here](#)

ACCP Clinical Pharmacy Challenge Team Registration Deadline September 8 (continued from page 1)

If no ACCP Faculty Liaison has been identified, any faculty member from the institution may initiate the registration process. The registering faculty member must confirm the eligibility of all team members and/or alternates online before a team will be permitted to compete in the Clinical Pharmacy Challenge. **The deadline to complete team registration and confirm eligibility is September 8, 2015.** To view a list of teams already registered for this year's competition, click [here](#).

Competition Overview: Teams of three students compete against teams from other schools and colleges of pharmacy in a "quiz bowl"-type format. Only one team per institution may enter the competition. Institutions with branch campuses, distance satellites, and/or several interested teams are encouraged to conduct a local competition. ACCP provides a local competition exam that institutions may use in selecting their team. Faculty members interested in using the exam may send an email request to Michelle Kucera, Pharm.D., BCPS at mkucera@accp.com.

Preliminary rounds of the national competition are conducted virtually in September. The quarterfinal, semifinal, and final rounds will be held live at the ACCP Global Conference on Clinical Pharmacy in San Francisco, California, October 17-19, 2015.

Each team advancing to the quarterfinal round held at the ACCP Global Conference will receive three complimentary student full meeting registrations. Each team member will receive an ACCP gift certificate for \$125 and a certificate of recognition. In addition to the above, semifinal teams not advancing to the final round will receive a semifinal team plaque for display at their institution. The second-place team will receive a \$750 cash award and a commemorative team plaque. The winning team will receive a \$1500 cash award, and each team member will receive a commemorative plaque. A team trophy will be awarded to the winning team.

For more information on the ACCP Clinical Pharmacy Challenge, including the competition schedule, sample items, and FAQ section, please click [here](#).

New Drug Approval Update: Palbociclib (Ibrance®)
Aisha Shokoya, Pharm D. Candidate 2018
Palm Beach Atlantic University

Revised by LeAnn Norris, Pharm.D., BCOP, BCPS, Associate Professor South Carolina College of Pharmacy

Palbociclib (Ibrance®) was approved by the FDA in February 2015 as a first line treatment, in combination with letrozole (Femara®), for postmenopausal women with advanced or metastatic ER+/HER2- (estrogen receptor positive/human epidermal growth factor receptor 2 negative) breast cancer. It is estimated that over 155,000 people in the U.S. have metastatic breast cancer. The median survival rate after diagnosis is three years with an average of 40,000 deaths each year. For the approximately 75% of breast cancers cases that are estrogen receptor positive (ER+), hormonal therapy with drugs such as letrozole, which inhibit estrogen production, have proven to be effective. However, some patients demonstrate resistance to hormonal therapy.

Palbociclib has been uniquely designed to overcome resistance to hormonal therapy and reduce tumor progression. It is a potent selective inhibitor of cyclin-dependent kinases CDK4 and -6. Inhibition of CDK4/6 has been shown to suppress neoplastic cell growth and DNA replication in breast cancer cells that are resistant to endocrine therapy, with the potential to re-sensitize tumors to the anti-hormonal effects of letrozole. An oral dose of 125 mg once daily with food was studied in combination with 2.5mg of letrozole daily for 21 days followed by 7 days off treatment to complete a 28 day cycle. When compared with letrozole alone, the combination revealed a median time to progression of 20.2 months compared to 10.2 months in the letrozole alone group. Major adverse reactions observed with this combination included an increased risk of infection (55%), neutropenia (57%), fatigue (41%), and nausea (25%). Other commonly-reported side effects are alopecia, anemia, thrombocytopenia, asthenia, stomatitis, peripheral neuropathy, and diarrhea.

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Associate Professor South Carolina College of Pharmacy
(continued from page 2)

Plabociclib is marketed by Pfizer, Inc. Presently, studies are being conducted to evaluate its effectiveness in combination with other drugs currently utilized for breast cancer. Plabociclib is a promising new agent that represents a major development in the treatment of metastatic breast cancer. For more information on Plabociclib visit

www.ibrance.com.

Citations

- 1) American Cancer Society. Breast Cancer. <http://www.cancer.org/cancer/breastcancer/detailedguide/breast-cancer-key-statistics>. Published September 25, 2014. Updated February 26, 2015. Accessed June 8, 2015.
- 2) Metastatic Breast Cancer Network. "Education: Most Commonly Used Statistics for Mbc." <http://mbcn.org/education/category/most-commonly-used-statistics-for-mbc>. Accessed 2015 June 20.
- 3) Ibrance [package insert]. Pfizer laboratories, NY, NY; February 2015. <http://labeling.pfizer.com/ShowLabeling.aspx?id=2191>. Accessed June 8, 2015.
- 4) Cadoo KA, Gucalp A, Traina TA. Palbociclib: An Evidence-based Review of Its Potential in the Treatment of Breast Cancer. *Breast Cancer: Targets and Therapy*. 2014; 6; 123-133.

*Pay attention
to updates on
the ACCP
Clinical
Research
Challenge!*



Student Chapter Challenge: If you could have any fictional character teach any class in pharmacy school, who would it be, what subject would they teach, and why?
Jamie Huff, Pharm.D. Candidate 2017
University of Charleston School of Pharmacy

Mr. George Feeny, from *Boy Meets World*, would be an excellent and inspiring Pharmacy Ethics professor. He would always strive to enhance the moral character of his students. When students need his help and assistance, he would be present and willing to help, no matter his priorities or commitments. Mr. Feeny would continuously urge his student pharmacists to act in the best interest of the patient no matter what because "a real hero is someone who does the right thing when the right thing isn't the easy thing to do."

Mr. Feeny followed his students in *Boy Meets World* from middle school to college, so it is valid to believe that after his students graduate from pharmacy school, he would stay in touch with them and forever act as a mentor. He would have numerous lessons and values to share with his Pharmacy Ethics class, such as honesty, integrity, trustworthiness, patience, and kindness. He would inspire his class to improve the healthcare system and the lives of their patients as well. As George Feeny once said, "It's not enough to leave school and just desire to succeed in this cold, cruel world because then you simply become a part of it."

*Interested in writing for
StuNews?*

*See our call for articles sent out
via the StuNet listserve!*

*Articles can be submitted to
stunews@accp.com*

Clinical Spotlight: Critical Care Christopher Droege, Pharm.D.

Interviewed by Tyler Vest, Pharm.D. Candidate 2016
University of Cincinnati
James L. Winkle College of Pharmacy



What is your current practice/role?

My primary, clinical role is as a Clinical Pharmacy Specialist in Critical Care at UC Health - University of Cincinnati Medical Center. My two primary practice sites are the surgical/trauma and medical intensive care units. I also serve as the Program Director for the PGY2 Critical Care Pharmacy Residency at our institution (three residents). Academic roles I serve include Adjunct Clinical Instructor at the University of Cincinnati College of Nursing and James L. Winkle College of Pharmacy.

How did you get involved in ACCP?

My interest started as a PGY1 General Pharmacy Practice Resident in 2009 through mentor-focused guidance and became more involved after finishing my PGY2 training in critical care in 2010. I have gotten more involved over time through the Critical Care PRN via email inquiries and responses. I also serve as a manuscript reviewer for Pharmacotherapy.

How has ACCP been important in your professional development?

It has provided an excellent platform for networking and professional growth over the years. The general mission and strategic plan of ACCP always fit what I wanted in practice and I appreciate the voice it provides clinical pharmacy as a whole. It also has great forums for residents, fellows, and general education, which has definitely been welcome over the years.

What is the best advice you would give to students pursuing careers in clinical pharmacy?

Be hungry! Stay hungry! You should always find the opportunity to learn at least one new pearl on a daily basis and never be satiated. Never underestimate the impact you can make on patient care and even your direct and interdisciplinary colleagues! It's never too early to begin preparing for your clinical career. To the young, budding clinical minds out there: I cannot stress how important membership to organizations like ACCP can benefit your careers. Take every opportunity you can to network and get to know your peers... our world is very, very small!

2014-2015 accp National student network advisory committee



LEADERSHIP:

Kyle Strnad – Chair
Tyler Vest – Vice Chair
Erin McCreary – Secretary

MEMBERS-AT-LARGE:

Matthew Atkinson
Kelsey Billups
Timothy Howze
Jennifer Koehl
Ruby Lee
Alex Olinger
Jinhee Park
Rebecca Pulk

ACCP STAFF LIASON:

Michelle Kucera, Pharm.D., BCPS

QUESTIONS/COMMENTS:

Email: stunews@accp.com

If you could have any fictional character teach any class in pharmacy school, who would it be, what subject would they teach and why?

Jordan Cooler, Gabrielle Furguele, and Alyson Leonard, Pharm.D. Candidates 2016
South Carolina College of Pharmacy-University of South Carolina Campus, ACCP Student Chapter

“On the magic school bus...step inside-it’s a wilder ride” If we were going to have a fictional character teach in pharmacy school, we would like to invite Ms. Valerie Frizzle. This teacher wouldn’t use the traditional power-point lecture teaching style, but would be able to teach outside of the classroom, with virtually no limits. Ms. Frizzle would be able to load all of her pharmacy students on the magic school bus. Additionally, Ms. Frizzle would be able to shrink the magic school bus to take us into the body. Inside of the body, we would be able to study different organ systems/processes, and we could follow drugs to better understand their pharmacodynamics and pharmacokinetics. This teaching style would have the most application in Pharmacotherapy/Pathophysiology. For example, we could be ingested along with omeprazole, and observe how the medication goes through the steps of absorption, distribution, metabolism, and elimination. Along the same lines, we could see first-hand how different receptors are activated or blocked by a medication, or see how a medication crosses the blood brain barrier – the possibilities are truly endless. The South Carolina College of Pharmacy would have a truly unique and innovative experience with Ms. Frizzle, and the magic school bus would put a new twist on didactic learning.

JOIN US FOR THE NEXT STUDENT CHAPTER CHALLENGE

What character from a movie or television show would make the best pharmacist, and why?

Have an idea for a student chapter challenge? Submit your question to stunews@accp.com

Calendar of Events

September

8 Deadline to register for the 2015 ACCP Clinical Pharmacy Challenge

October

17-21 Annual Meeting: 2015 ACCP Global Conference in San Francisco, CA

December

6-10 ASHP Midyear in New Orleans, LA

ACCP HEADQUARTERS

13000 West 87th Street Parkway
Lenexa, Kansas 66215-4530

Telephone: (913) 492-3311
Fax (913) 492-0088
Email: accp@accp.com

For more information:

Check out our website:
<http://www.accp.com/index.aspx>



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