

Oklahoma Society of Health-System Pharmacists

QUARTERLY NEWSLETTER

JANUARY 2010



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Letter From The President

Greg Clack, Pharm.D.

This has been a whirlwind of a year for me and, I expect, many of you as well. I have discovered that it takes a lot of work behind the scenes with many people involved to keep an organization such as OSHP running. I would like to thank all those who help to make OSHP a successful and viable organization. Work has already begun on the program for our Annual Meeting in April, and I am excited about the proposed program.

I would like to thank this year's Board of Directors for their hard work and vital contributions. Susan Conway is our Past President, Chelsea Church is President-elect, Nancy Williams is Secretary, Emily Borders is Treasurer, Pete Johnson is Western District Chair, and Kari McCracken is Eastern District Chair. Susan Conway graciously agreed to stay on a second year as Past President since Lesley Maloney relocated out of state and she has provided sage wisdom countless times this year.



OSHP also has a committee structure to ensure that our yearly tasks and goals are achieved. This requires considerable work by too many of our members to list all of them here. The committee chairs are: Legislative: Tracy Hagemann, Membership: Yvette Morrison, Newsletter: Debbie Poland and Winter Smith, Nominations: Edna Patatanian, Program: Ann Lloyd, and Scholarship and Awards: Michele Splinter. All of these people and their respective committee members have my heartfelt thanks and gratitude for their service during the 2009-2010 year.

Another important issue this year is the Collaborative Medication Therapy Management proposal which is about to go to the Medical Licensure and Osteopathic Boards for review. This is integral to the way we practice

pharmacy and will help to secure pharmacy's place in healthcare. I hope everyone will be able to follow this issue as it goes through the political process. We hope for a successful passage, because if it fails, it may be several years before we are able to tackle this issue again.

I am excited to report that our membership has increased during 2009 from 270 to 329 total members. As we deal with a certain amount of chaos in the healthcare system, we should remember that sometimes chaos brings opportunity. Advocacy efforts at the national level could change the landscape for pharmacists. Multiple organizations have collaborated to lobby Congress for reform provisions that could ensure a key role for pharmacists in the future. It is important that we all stay engaged with our legislators and pharmacy organizations as the healthcare debate continues. Our hard work to provide excellent patient care will help to ensure a bright future for our profession.

We're on the Web!
www.oshp.net

SWOSU Fall 2009 sOSHP Chapter Highlights

ADVISORS: TIFFANY KESSLER AND NANCY WILLIAMS



(Left) SWOSU local Clinical Skills Competition winners in Las Vegas: Ean Miller and Carl Coats

Some of our members decided to demonstrate their commitment to health and wellness by attending Walking for Wellness events in the Weatherford area.

Some of our members decided to demonstrate their commitment to health and wellness by attending Walking for Wellness events in the Weatherford area.

As is customary in the fall, we organized the local Clinical Skills Competition. Eight teams participated in this event in October. The winning team of Carl Coats and Ean Miller represented SWOSU in the national competition at the ASHP Midyear Clinical Meeting in Las Vegas.

During the fall semester, the Southwestern Student Chapter of OSHP kept pretty busy. We held a great charity event, hosted wonderful speakers, organized the local Clinical Skills Competition, and had a successful fund-raising campaign. One of our guest speakers was Dr. Mark Gales, who came to give our group information about the Clinical Skills Competition.

During the holiday season, we sponsored a canned food drive and gave all of the donations to Dr. Pray, who distributed the food through the Agape free clinic in Weatherford.

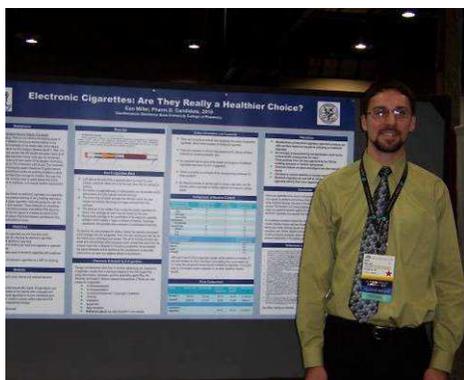
To raise money to help send some of our members to the ASHP Midyear Clinical Meeting in Las Vegas, Nevada, our chapter sold t-shirts and hooded sweatshirts. Our fundraising chairmen, Shawn Poole and Mason Holman, came up with four great new designs. In addition to our usual sales to the students and faculty, we also set up a booth at the College of Pharmacy reunion during homecoming weekend and

To wrap-up our great semester, we hosted a Christmas party/officer election meeting with lots of food and fun. We are very excited about the spring semester and look forward to a great group of speakers and activities.

We would also like to thank our current officers and faculty advisors for doing such a great job!

Dr. Tracie Simard and Dr. Holly Cuthbertson educated us about their positions as pharmacy consultants for Pharmacy Solutions.

(Below) Pharmacy Student Tara Newton presenting a school poster at the student reception at the Midyear Clinical Meeting



(Left) Pharmacy Student Ean Miller presenting a student poster at the Midyear Clinical Meeting



Officers	Fall 2009	Spring 2010
President	Tara Newton	Daniel Chapman
President-Elect	Daniel Chapman	Robert Gholson
Secretary	Khoi Phan	Long Tran
Treasurer	Robert Gholson	Ha Trieu
Fundraising Co-Chairs	Mason Holman Shawn Poole	Mason Holman Rubin Varghese

OU Fall 2009 sOSHP Chapter Highlights

WRITTEN BY KRISTIE WILLIAMS AND PICTURES PROVIDED BY NATASHA GOLI

The University of Oklahoma's student chapter of Oklahoma Society of Health-System Pharmacists had a very exciting semester.

The semester began with a meeting to promote our membership drive. In total we had 46 Oklahoma City Members and 19 Tulsa Members. Meeting speakers in the Fall semester included Dr. Tim Murray who spoke about opportunities for pharmacists with Indian Health Services and Shannon Holcombe with the Oklahoma Poison Control Center who spoke about the services at the Poison Center.

In November we joined with fellow organizations including NCPA and APhA-ASP in sponsoring a Residency Panel. The panel consisted of PGY1



Oklahoma City PGY1 Residents (from left to right: Holly Herring, Misty Miller, Phong Hoang, and Ashley Teel)

residents Holly Herring, Phong Hoang, Misty Miller, Ashley Teel, and Lida Ryan along with PGY2 resident Bob John.

sOSHP members also took part in a Smoking Cessation Outreach Program

at a Homeless Health Fair located at the City Rescue Mission of OKC. The purpose of the program was to improve patient quality care through education on initiation of smoking cessation and lifestyle modification. Our goal was to educate patients on various non-pharmacological and pharmacological approaches to smoking cessation.

The OU Student Chapter of OSHP partners with the Oklahoma Poison Control Center to provide services to the community. Members volunteered at the Home Depot Kid's Fair in Midwest City on October 2nd and also provided poison prevention information with the Poison Center at the SandRidge Santa Run in OKC on Dec 5.

OU Member Spotlight



Faculty Advisor Dr. Michele Splinter (left) and President Kate Denney (right)

John Hurst and Erin Donohue (P-4 OKC) competed in the National Clinical Skills Competition and 15 students from OU attended the ASHP Clinical Midyear Meeting in Las Vegas. Susan Krueger and Brittany Mills (P-4 Tulsa) represented the college at the student leadership workshop at the Midyear Meeting. President Kate Denney was recognized at the October meeting for her hard work gaining ASHP recognition for our organization as a Student Society of Health-System Pharmacists. Thanks Kate!



Oklahoma City 2009 sOSHP Officers (from left : Kristie Williams, Kate Denney, Jessica Hille, Allison Hooper, and Natasha Goli)

Overview of drugs used in the treatment of Pulmonary Arterial Hypertension

Mattea Tate, Pharm.D.; (former) PGY-1 Resident 2008-2009; Oklahoma City Veterans Affairs Medical Center

Julia Chiappe, Pharm.D.; Drug Information Specialist; Integris Baptist Medical Center

INTRODUCTION:

Pulmonary arterial hypertension (PAH) is a relatively rare condition involving persistently high pulmonary artery pressure with a mean greater than 25 mmHg at rest. A mean pulmonary artery pressure of 8 to 20 mmHg at rest is considered normal. Patients with PAH experience dyspnea, lower extremity edema, angina, syncope, orthopnea and paroxysmal nocturnal dyspnea with coughing. PAH has an estimated incidence of 1 to 2 per million people per year. The mean age at diagnosis is 36 years, but can occur at any age. There are two categories of PAH. Primary pulmonary arterial hypertension (PPAH) is usually a hereditary condition and is idiopathic. Secondary pulmonary arterial hypertension (SPA) may develop subsequent to chronic lung, heart, or liver disease. The ingestion of contaminated rapeseed oil, L-tryptophan, amphetamines, and cocaine have also been associated with the development of SPAH.^{1,2}

See Table I on the following page for a summary of medications used in PAH

Table I provides a summary of the medications used to improve exercise capacity and delay clinical worsening. According to the 2007 ACCP treatment guidelines, treprostinil is indicated for functional class II symptomatic pulmonary arterial hypertension after oral calcium channel blockers and sildenafil have failed. Bosentan, epoprostenol, iloprost, and treprostinil are indicated for functional class III pulmonary arterial hypertension. Although the cost and educational requirements are challenging for some of the medications, they are outweighed by the improvement in quality of life for the patients.⁸⁻¹⁰

Unique challenges exist for hospitals affiliated with PAH referral centers and lung transplant centers. Patients admitted on unique ambulatory infusion and nebulization devices usually cannot be converted to standard hospital equipment. This makes it imperative that nursing, pharmacy, and respiratory staff be familiar with the medications and devices used to administer the nonoral agents for PAH, especially when patients are admitted to start a new therapy or are critically ill and unable to participate in their care. To further support patient safety, all the medications for pulmonary arterial hypertension except sildenafil are distributed through specialty pharmacies. These pharmacies provide extensive patient and caregiver education as well as support to hospital staff for training and verification of dosage regimens. Hospital pharmacists play a key role in ensuring the patients are receiving the correct dose, drug supply is replaced according to stability requirements, and any conversion to hospital equipment requiring recalculation of infusion rates is completed correctly.

REFERENCES:

1. Rubin LJ. Pulmonary Hypertension, Cor Pulmonale, and Miscellaneous Vascular Conditions. In: ACP Medicine [book online]. BC Decker; 2008. STAT!Ref Online Electronic Medical Library. Jackson, WY. Available at: <http://online.statref.com>. Accessed 4/14/2009.
2. Libby P, et al. Types of Pulmonary Hypertension. In: Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine, 8th ed. Saunders Elsevier 2008. MD Consult Web site. Available at <http://www.mdconsult.com/book/player/book.do?method=display&type=bookPage&decorator=header&eid=4-u1.0-B978-1-4160-4106-1..50076-5--cesec57&displayedEid=4-u1.0-B978-1-4160-4106-1..50076-5--cesec115&uniq=131513038&isbn=978-1-4160-4106-1&sid=829261136>. Accessed 10/23/09.
3. Package insert. Ambrisentan (Letairis®). Foster City, CA: Gilead Sciences, October 2008.
4. Package insert. Bosentan (Tracleer®). South San Francisco, CA: Actelion Pharmaceuticals. March 2009.
5. Package insert. Epoprostenol (Flolan®). Research Triangle Park, NC: GlaxoSmithKline. January 2008.
6. Package insert. Iloprost (Ventavis®). South San Francisco, CA: Actelion Pharmaceuticals. July 2008.
7. Package insert. Treprostinil injection solution (Remodulin®). Research Triangle Park, NC: Baxter Pharmaceutical Solutions. September 2008.
8. Package insert. Treprostinil inhalation solution (Tyvaso). Research Triangle Park, NC: United Therapeutics Corp. July 2009.
9. DRUGDEX® System (electronic version). Thompson Micromedex, Greenwood Village, CO, USA. Available at: <http://www.thompsonhc.com>. Accessed 4/14/2009.
10. Lexi Drugs Online. Lexi-Comp Online. Lexi-Comp, Inc. Hudson, OH. Available at: <http://online.lexi.com/Crlonline>. Accessed 4/14/2009.
11. Badesch DB, et al. Medical Therapy for Pulmonary Arterial Hypertension. Chest 2007; 131:1917-28.

Overview of drugs used in the treatment of Pulmonary Arterial Hypertension Cont.

Table 1³⁻¹⁰

Drug	Dosage Form & hospital cost	Route (class)	Dose
Ambrisentan (Letairis®)	5 mg tablet = \$164.17 10 mg tablet = \$164.17	Oral (Endothelin antagonist)	5 – 10 mg daily
Bosentan (Tracleer®)	62.5 mg tablet = \$92.49 125 mg tablet = \$92.49	Oral (Endothelin antagonist)	62.5 – 125 mg twice daily
Sildenafil (Revatio®, Viagra®)	20 mg tablet = \$60.55 25 mg tablet = \$12.13 10 mg injection (price not available)	Oral or IV bolus (Phosphodiesterase inhibitor)	20 mg by mouth three times daily (off-label dose up to 80 mg three times daily) 10 mg IV three times daily
Epoprostenol (Flolan®) <i>(generic available)</i>	17 mL vials (injection) Concentration: 0.5 mg = \$14.46 1.5 mg = \$10.50	Continuous IV infusion using ambulatory pump (Prostacyclin)	2 nanograms/kg/min Titrated to effect
Iloprost (Ventavis®)	10 mcg/1 mL glass ampule = \$58.75	Inhalation via I-neb® system (Prostacyclin)	2.5-5 mcg per inhalation 6-9 times daily
Treprostinil (Remodulin®, Tyvaso®)	20 mL vials (injection) Concentration: 1 mg/mL = \$1,345 2.5 mg/mL = \$3,362 5 mg/mL = \$6,725 10 mg/mL = \$13,450 2.9 mL ampule (inhalation solution) Concentration: 0.6 mg/mL (price not available)	Continuous IV or Subcutaneous infusion using ambulatory pump Inhalation via Tyvaso Inhalation System (Prostacyclin)	1.25 nanograms/kg/min for first 4 weeks titrated to 2.5 nanograms/kg/min Goal dose: 9 breaths or 54 mcg given in 4 separate daily treatment sessions approximately four hours apart, during waking hours.

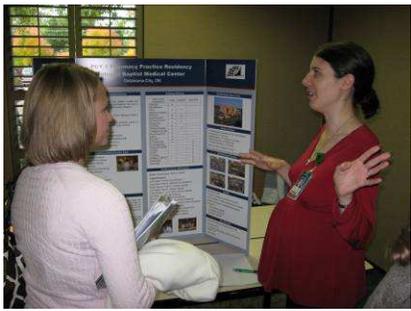
OSHP Fall Meeting 2009 and Residency Showcase

This year's Fall Meeting was held on Friday, October 23rd at St. John Medical Center, Mary K. Chapman Health Plaza in Tulsa, Oklahoma. Approximately 75 pharmacists (including 12 student pharmacists!) enjoyed excellent speakers, an opportunity for fellowship with peers and vendors, and of course, good food. Six hours of ACPE-accredited continuing education were offered, including a variety of topics such as the H1N1 influenza virus, naturopathic medicine, prostate cancer, new and emerging cardiovascular therapies, and an update on practice in the intensive care setting.

The meeting was followed by the 8th Annual Residency Showcase. Nine programs provided booths for interested candidates to seek information about residency opportunities. Thanks to the following programs for participating in the showcase:

Choctaw Nation Health Care Center Talihina, OK	Claremore Comprehensive Indian Health Care Facility Claremore, OK
Integris Baptist Medical Center Oklahoma City, OK	Norman Regional Health System Norman, OK
Oklahoma City VA Medical Center Oklahoma City, OK	Saint Francis Hospital Tulsa, OK
The University of Oklahoma College of Pharmacy Oklahoma City and Tulsa, OK	USA Drug Community Pharmacy Residency Tulsa, OK
North Texas Veterans Affairs Health Care System Dallas, TX	

Scenes From the 2009 OSHP Fall Meeting (October 23rd, 2009)



The vendor showcase was a great success. A big "thank you" to Ann Lloyd for all of her hard work.



Legends of the game... (left)



Student Pharmacists enjoying the meeting. Smile! (below)



A Message from the District Chairs

Western District

The OSHP Western District held four meetings in 2009 that have received Oklahoma State Board of Pharmacy approval for 1 hour continuing education credit each for members in attendance. There are two Western District Meetings for which approval is pending from the Oklahoma State Board of Pharmacy for continuing education. These two meetings will likely not be evaluated by the OK State Board of Pharmacy until late December 2009. Additionally, there was one Western District Meeting that was not submitted for approval for continuing education due to unforeseen circumstances.

I would like to thank our industry sponsors who have made our meetings possible including Sanofi-Aventis, TopoTarget, MedImmune, and GlaxoSmithKline. As a result of their support, Western District members have had the opportunity to learn about a variety of topics including vaccinations, infectious disease, cardiology, and oncology. We have had great attendance at meetings this past year; our average attendance was 50 (range 36-69) members per meeting.

I want to thank our dedicated members for their continued attendance and support. In addition, I would encourage Western District members to e-mail me at peter-johnson@ouhsc.edu if they have a potential topic/sponsor for one of our Western District meetings. I am currently planning our meetings for 2010, and I would appreciate your input. Thanks for all your support.

*Peter N. Johnson, Pharm.D., BCPS
OSHP Western District Chair*

Eastern District

In 2009, the OSHP Eastern District offered seven meetings for its members. Four have received Oklahoma State Board of Pharmacy approval for 1 hour of continuing education each and three are awaiting approval.

Our industry sponsors have truly been exceptional in their support of pharmacy education and OSHP and deserve a very special "Thank You". Sanofi-Aventis, the Medicine Company, and American Regent brought to our members learning opportunities in cardiology, hematology, psychology, and endocrinology. I am also excited to say that the meeting attendance for 2009 has doubled that of previous years. Our average meeting attendance was 35 members per meeting.

I would like to thank our Eastern District members for their continued attendance and support. Unfortunately, my time as Eastern District Chair is drawing to a close. If you are interested in pursuing this position, please feel free to contact me with any questions you may have at: kari.mccracken@sjmc.org. Nominations will be accepted through early 2010 and the position will begin after the annual meeting in April. I will continue to plan our meetings through May 2010 and I would greatly appreciate input on meeting topics and locations.

*Kari A. McCracken, Pharm.D., BCPS
OSHP Eastern District Chair*

Visit oshp.net for updates and meeting schedules

Upcoming OSHP Board Meetings	Location
January 27, 2010 (3-5pm)	OU COP-OKC & OK-Tulsa
February 24, 2009 (3-5pm)	OU-COP room 339 (OKC); room 2H37 in Tulsa
March 24, 2010 (3-5pm)	

Oklahoma Society of Health-System Pharmacists

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To submit an article, photos, or updates, send an email to:

Winter Smith
Winter-Smith@ouhsc.edu
 — or —
 Debbie Poland
dpoland@nrh-ok.com

Help OSHP grow—forward this newsletter to your coworkers and print copies for others to read.
 — Thanks for your support

Our Goals

- Advance rational, patient-oriented drug therapy.
- Promote pharmacists as integral members of the health care team, fully utilizing their clinical and drug-use-control functions.
- Serve as a primary advocate for advancing professional practice, enhancing the cost-effectiveness of pharmaceutical services, and improving the quality of patient care.
- Promote the pharmacists' value to patients to insure that appropriate medication management is applied for their benefit.
- Encourage good health by fostering the optimal and responsible use of drugs, including prevention of improper or uncontrolled usage.
- Assure sufficient, competent manpower in the profession by offering education and training programs.
- Contribute to continuing education programs for pharmacy practitioners and support staff.
- Provide leadership in the identification, analysis and evaluation of health care trends and in the development of public policy, and address legislative and regulatory initiatives of concern to the pharmacy profession.

Not yet a member of OSHP? Join Today!

Benefits

- **Meetings and conferences** provide current information pertaining to all areas of the health-system pharmacy profession and related areas.
- **Monthly district meetings** are an excellent opportunity for continuing education.
- **Networking with pharmacy professionals**, sharing past work experiences, and generating new ideas.
- **Opportunity to participate** in the future planning of health-system pharmacy.

Membership Categories

- Active - Pharmacist: \$75.00/year
- Active - First Year Pharmacist Licensee: \$50.00/year

Associate Members:

- Supporting: \$50.00/year
- Technician: \$20.00/year
- Pharmacy Student: \$20.00/year

For full details about membership in OSHP visit <http://www.oshp.net>

