

**January/
February 2019**

Volume 6, Issue 1

NYSCHP | New York State
Council of Health-system
Pharmacists

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President's Message

The Council continues to hear concerns regarding unlicensed personnel in the areas of sterile and non-sterile compounding. The Council has previously shared with our membership the current written guidance from the Board of Pharmacy regarding the role of unlicensed personnel in this area. This guidance states that our regulatory structure makes a distinction between compounding and dispensing as well as the repackaging or manufacturing of medications. This distinction is analogous to federal over-sight of the manufacturing processes that routinely use unlicensed personnel under the strict supervision of a pharmacist to prepare drugs in bulk quantities. There has been no further written updates to supersede what has been provided previously. Please be advised that regardless of what roles pharmacy technicians or unlicensed personnel play in your practice, pharmacists are still ultimately responsible for all activities performed under their supervision. Take this time to ensure that your facilities meet the standards already outlined by the Board of Pharmacy.

The Council continues to work with the State Education Department on this and other important issues related to health-system pharmacy. Remember that advocacy remains a professional responsibility for us and your voice is necessary for the profession to continue to move forward.

Respectfully,

Anthony Longo

President, New York State Council of Health-system Pharmacists

Grassroots Advocacy Committee Highlight

Westchester Chapter:

One fine winter day in December, our members from the Westchester County Society of Health-system Pharmacists (WCSHP) arrived at New York State Assemblyman David Buchwald's office located in Westchester, New York. Led by chapter president, Eric Guido, and president-elect, Grace Shyh, we strategically planned an hour-long action-packed agenda, including seeking support for the expansion of pharmacist immunization and pharmacy technician registration. Elected to the New York State Assembly in 2012, Assemblyman Buchwald is a methodical and articulate gentleman with a record of successfully tackling challenging environmental, community development, as well as modern transportation infrastructure issues in the public policy arena.

We explained the disparate scopes of practice between pharmacists and pharmacy technicians. Referring to the examples of Emily Jerry, daily handling of opioid narcotics, and the responsibilities inherent in sterile compounding, we emphasized the importance of advocating for pharmacy technician registration as a requirement to further promote safe practice and accountability. Secondly, we discussed the possibility of expanding pharmacist immunization beyond the adult seasonal influenza, pneumococcal, and herpes zoster vaccines, to improve public access to basic and necessary preventative care. Lastly, experience with various community outreach programs that WCSHP members have devoted their time and effort to, including *Hillside Food Outreach* packing nights and *God's Love We Deliver* food preparation were shared with Assemblyman Buchwald. At the end of the meeting, we extended a warm invite to Assemblyman Buchwald to attend future chapter meetings as an opportunity to provide WCSHP members, including his district constituents, with legislative updates and more face time. During this one-hour meeting with Assemblyman Buchwald, we witnessed his passion for public welfare, exchanged intellectual repertoires regarding the pharmacist immunization bill, and gained support for many of the discussed issues. This has been a fruitful meeting and a wonderful experience for us. We are looking forward to our next legislative visit and we encourage everyone to join us!

Eric Guido, RPh, President WCSHP

Grace I. Shyh, PharmD, BCPS, BCACP, President-elect WCSHP



From left to right: Member Kingsley Lin, chapter president-elect Grace Shyh, Assemblyman David Buchwald, chapter president Eric Guido, member Bibi Khan and member Tanishia McIntosh



New Practitioner Highlight

Joel Costanzo II, PharmD

Clinical Pharmacy Specialist – Emergency Medicine
Niagara Falls Memorial Medical Center

My Story: I decided that pharmacy was the right career choice for me early on in high school. To me, pharmacists were seen as trustworthy, helpful, intelligent people in the community that patients could go to without an appointment for medical advice. People trust pharmacists. At that point in time, being the helpful person in a white coat at the corner drug store was my ultimate dream. I shadowed in a local independent pharmacy through high school and that further solidified my interest in pharmacy.

Fast forward to P-1 year, fall semester rotations, I was placed on my hospital rotation at a small community hospital in Niagara Falls with one of my professors as a preceptor. At this point I had my heart set on community pharmacy but over the next two weeks of this rotation my mind was changed. Seeing the important interactions that hospital pharmacists have with providers in the acute care of patients really sparked my interest. Later that semester there was an opening for an intern at this hospital. I jumped at the chance and was excited to get the opportunity to work there. Over the next few years I fell in love with hospital pharmacy and knew that was where I wanted my career to go.

After graduating in 2016, I was fortunate to further my interest in hospital pharmacy with a PGY-1 at Niagara Falls Memorial Medical Center under Dr. Michelle Lewis. This opportunity helped me see many different aspects of hospital pharmacy and find what I truly enjoyed. As a P-4 student I did a rotation with a clinical pharmacist in the emergency department and that initiated my interest in emergency medicine. I continued on with both a required and advanced emergency medicine rotation with my preceptor and mentor, Dr. Eric Kalita, and this solidified what I wanted to do with my career. Currently, I am living my dream as the Emergency Medicine Specialist at Niagara Falls Memorial Medical Center. I work with an amazing group of pharmacists and providers and can't wait to see where my career takes me next.

Advice for New Practitioners: One thing that I have been unsuccessful at early in my career is saying “no”, and I have never been happier to be bad at something. You need to know your limits, but I believe that this is one of the reasons why I am where I am in my career. Not being afraid to get out of my comfort zone has given me many unexpected opportunities within and outside of pharmacy. When someone you look up to or admire wants to give you an opportunity, take it. Don't be afraid to step outside of your comfort zone because that is where the most exciting things happen.

Value of NYSCHP: If you have ever heard the phrase “pharmacy is a small world”, you will learn that that holds true, in a good way. You can never have too many resources in an ever-changing career such as pharmacy. By getting involved with my local WNYSHCP chapter, I have developed good professional relationships with some of the top pharmacists in the area. I value all of the relationships I have developed and this is largely due to networking in organizations such as NYSCHP. From attending CE events locally to going to the NYSCHP Annual Assembly, there is always something to gain from the experience, so take every opportunity that is presented to you because you never know where it may lead.

Pharmacy Technician Corner

Welcome to our newly created technician section in the NYSCHP News Brief and our inaugural technician spotlight. I am excited to highlight the Support Personnel Committee and some of our initiatives for the year. The Support Personnel Committee is comprised of pharmacists and technicians who are committed to shaping the future role of technicians, as well as advancing the roles of pharmacy technicians to enhance the direct patient care efforts of pharmacists. Our committee has been meeting monthly via teleconference. Additionally, we will have an in-person meeting at the upcoming Annual Assembly in Saratoga for the first time.

In an effort to promote increased technician programming, we are working with the Education Committee to provide additional professional development and continuing education for our members. Our committee is engaged in policy formation and has also worked diligently on writing resolutions that have an impact on technicians, such as “tech-check-tech” and medication reconciliation. The committee also welcomes our new Pharmacy Technician Certification Board (PTCB) Liaison, Dr. Ryan Burke, who serves as the Director of Professional Affairs. We are looking forward to recognizing pharmacy technicians for their vital contributions and elevating the technician profession in New York State.

It has been an absolute pleasure working with the Chair of the Support Personnel Committee, Cyndie Walton, on all of our initiatives. The Support Personnel Committee is happy to feature her in the first Technician Spotlight. We are looking forward to featuring more of our technician members in future editions.

Mary Choy, PharmD, BCGP, FASHP
Director of Pharmacy Practice, NYSCHP



Pharmacy technicians gathering at the 2019 NYSCHP Quad Meeting
From left to right: Bibi Khan, David Chung, Lilian Leon and Pia Corsa



Technician Spotlight

Cynthia L. Walton, BSW, CPhT

Program Coordinator/Instructor

Pharmacy Technician Program

Rochester Educational Opportunity Center (REOC)

State University of New York at Brockport, Rochester, New York

Why I Do What I Do:

I have always enjoyed working with people in life transition. I came into pharmacy during a life transition having had a successful career in criminal justice and social work before raising and homeschooling my four children. My local independent pharmacy in Connecticut offered me a position as a technician and my pharmacy path began. Having spent years in retail, inpatient, and long-term care, I enjoy sharing my passion for pharmacy with people who are looking to change their lives, by sharing my knowledge and helping them to find the tools necessary for success within this field. The pharmacy technician students in my program come from a variety of backgrounds. Rochester Educational Opportunity Center (REOC) takes a holistic approach to each student and offers a variety of totally free, hands-on training opportunities relevant to higher education, and the in-demand workforce needs of our community.

There is personal satisfaction when an individual, who has been homeless with her children, reaches the goal of completing an ASHP-accredited pharmacy technician training program and passes the Pharmacy Technician Certification Exam (PTCE), obtaining national certification. One student this past spring came to REOC at the recommendation of our local job bank. She had been downsized from a local company and had limited skills. A mom of two, she received no alimony from her ex-husband and the child support order was not being followed which meant the only income they had was unemployment. Although she worked through court to get the money due to her, her unemployment was ending which left her family giving up their apartment, moving to temporary housing, and eventually living on couches at friends' homes. The one hope the family counted on was the mom completing our pharmacy technician program and getting a job in health care. So many odds were against my student, however, she worked very hard at her classes, stayed positive no matter what, and made the best choices possible for her family. She has graduated from our ASHP-accredited pharmacy technician program, passed her exam, and is now a certified pharmacy technician (CPhT). She is also employed by one of our region's largest health care facilities. The health care facility was largely impressed with how she conducted herself during her practical rotation, her knowledge, and her overall friendliness. She began her pharmacy technician career in the Cancer Center and is now able to provide for herself and her two daughters. She is also a wonderful role model for her children.

Many students have come to me and said "thank you," or "do you realize how life changing this is?" I can only say "yes I do – but the strength and endurance comes from within you. I only pointed out the way for you." The confidence and pride they have in themselves for passing the exam radiates from them. For me, knowing that I had a very small part of helping that family succeed... is why I enjoy teaching.



Latest Accomplishment:

I accepted the Chair position of the NYSCHP Support Personnel Committee in September 2017. It is a privilege to work with the current Director of Pharmacy Practice, Dr. Mary Choy, and to collaborate with pharmacists and technicians throughout New York State. Shaping the future of the pharmacy technician field is an honor. We hold a monthly conference call to discuss legislation, education, and current news which affects the state and our localities.

Most Memorable Experience as a Pharmacy Technician:

Although I have many memorable experiences in all the different settings where I have worked, the most memorable ones are the expressions on the faces of students when someone has passed the PTCE. I have students and community pharmacy technicians who I remind that "strength is within yourself." I can only point the way, you must choose to go.

Why I Became Certified:

When I chose to pursue pharmacy as a new career, I knew I wanted to have the most knowledge possible to do my job to the best of my ability. I believed certification would provide me with the necessary tools. Therefore, in 2009, I attended a prep class for the PTCE at a local community college. When the opportunity came to relocate, I knew certification would make me a better candidate and provide me with more opportunities.

My Passion Outside of Work:

Recently married, my husband and I enjoy history and participating in a local medieval recreational group. Currently I am a World History MA candidate in SUNY Brockport's History Department. Here my interests lie in the epidemiology of the second and third plague pandemic, and the resulting medical significance of DNA mutation CCR5-Delta32.

Latest Book Read

Dark Mirror: The Medieval Origins of Anti-Jewish Iconography by Sarah Lipton
(reading for the MA program)

Advice to Up-and-Coming Technicians:

Most people think of technicians as only practicing in retail pharmacy settings. I encourage people to get the basic skills down and if offered an opportunity to try something new – do it! You might find something else you enjoy, or you can at least eliminate it from your "to do" list, if you do not enjoy it. Consider what aspects of your job that you do enjoy, and also consider what aspects of your job you wish were different. This can be a "get to know yourself" exercise. Make a plan for advancement. You could take informational technology, business, language, or other classes, this could expand your horizon and also enhance your pharmacy experience.



Pharmacy School Highlights

D'Youville School of Pharmacy



This past year, Student Society of Health-System Pharmacists (SSHP) at D'Youville School of Pharmacy had the privilege to volunteer for Feed My Starving Children to package boxes of scientifically formulated food for undernourished children in developing nations. In addition, many of our student members participated in Light the Night Walk, The Leukemia & Lymphoma Society's walk, to show support to those families that have been affected by leukemia and lymphoma. We want

to continue to reach out to the community and educate them, including children. This past Halloween, our members took part in educating kids in the community on medication safety, demonstrating the difference between medication and candy. We also continue to teach patients the importance of vaccinations at local community pharmacies. Lastly, our favorite event each year is Mr. Pharmacy, where students showcase their talent and fundraise money that is donated to Roswell Park Comprehensive Cancer Center. Our student members are eager to continue to give back to the community and they look forward to what this year brings.



Natalia Dziadosz
D'Youville School of Pharmacy
SSHP President
Pharm. D. Candidate, Class of 2020



Top two pictures: Neighborhood Halloween:
Trick or Treating

Bottom right picture: Light the Night Walk,
The Leukemia & Lymphoma Society

University at Buffalo School of Pharmacy and Pharmaceutical Sciences

The year 2018 was a busy year for the University at Buffalo School of Pharmacy and Pharmaceutical Sciences (SPPS) SSHP. Midway through February, members delivered Valentine's Day Cards to children admitted to Oishei Children's Hospital to brighten up their day (not to worry, plenty of smiles were also delivered!). Wellness clinics were one of the main focuses of the year as well. Students demonstrated their ability to apply what they had learned in class to the community through blood pressure screenings and talking with patients about how methods such as pillboxes can be helpful assets in medication adherence. We also held a speaker series throughout the semester with several local pharmacy residents. Our students loved having a current resident's perspective on the whole process from school through starting a PGY 1. Topics of discussion ranged from what to expect from a residency to becoming a competitive applicant, and even what to look for in PGY 2 programs. At the end of the spring semester, the UB and D'Youville SSHP chapters held a Jeopardy Night to blow off some steam before finals. Teams consisted of two P1/P2 students, two P3/P4 students, and one pharmacist. In the end, a D'Youville squad prevailed in victory! When the new semester started in the fall, we were determined to expand our reach with a membership drive to show every incoming student potential careers in health-systems pharmacy. By again inviting current residents to speak, we were able to communicate to all UB pharmacy students that health-systems pharmacy is an expanding field to practice in and that getting involved with SSHP was a great way to stay up to date on all things pharmacy. During the semester, one of our UB SPPS faculty, Dr. Calvin Meaney, graciously offered a CV event to help students spice up their CVs. With a few helpful tips, students were learning new ways to highlight their accomplishments on their CVs and prepare them for potential job applications.



Picture on top: Trivia Night runners up (from left to right: Christina Zemanek, Alana Martin, Jenna Osetkowski, Nicole Petrella, and Joe Palumbo, PharmD)

Picture on right: UB students delivering Valentine's Cards to Oishei Children's Hospital (from left to right: Elizabeth Patt, Alana Martin, Rachael Luconte, Laurie Diaz-Ordaz, Jared Gilbert, and Jessica Swiderek)

Denis Vanini,
PharmD Candidate, Class of 2021,
WNYSHP Liaison
University at Buffalo, School of
Pharmacy and Pharmaceutical Sciences



Clinical Corner

Xofluza[®] (Baloxavir Marboxil)

Two classes of agents, M2 ion-channel inhibitors and neuraminidase inhibitors, are widely available. However, circulating influenza viruses are now largely resistant to M2 ion-channel inhibitors, and resistance to neuraminidase inhibitors is emerging.

MOA: Baloxavir marboxil is a prodrug that is converted to baloxavir, the active form that exerts anti-influenza virus activity. Baloxavir inhibits the endonuclease activity of the polymerase acidic (PA) protein, in the viral RNA polymerase complex required for viral gene transcription, resulting in inhibition of influenza virus replication. It has shown therapeutic activity in preclinical models of influenza A and B virus infections, including strains resistant to current antiviral agents.¹

Pharmacokinetics:

Absorption: Median time to peak concentration = 4 hours

Distribution: 92.9%-93.9% bound to serum proteins

Metabolism: Metabolized by CYP3A4 and UGT1A3

Elimination: 80.1% excreted in the feces and 14.7% excreted in the urine

	Study Design	Patient Population	Endpoint	Results
Hayden et al. ² (2 sequential studies)	A Phase 2, double-blind, placebo controlled, dose-ranging RCT (n=400) in a 1:1:1:1 ratio to receive baloxavir 10, 20, or 40 mg or placebo	Inclusion criteria: Japanese patients with acute influenza <ul style="list-style-type: none"> Fever of $\geq 38.0^{\circ}\text{C}$ ≥ 1 Systemic symptom ≥ 1 Respiratory symptom of at least moderate severity Symptom duration ≤ 48 hours Positive rapid antigen test (Phase 2 study) 	Primary Endpoint: Median time to alleviation of symptoms defined as the time from the start of the trial regimen to the time when all seven influenza-related symptoms were rated by the patients as absent or mild for at least 21.5 hours. <ul style="list-style-type: none"> Seven influenza-associated symptoms (cough, sore throat, headache, nasal congestion, feverishness or chills, muscle or joint pain, and fatigue) on a 4-point scale 	<ul style="list-style-type: none"> The median time to alleviation of influenza symptoms was 23.4 to 28.2 hours shorter in the baloxavir groups than in the placebo group ($P < 0.05$) Significantly greater reduction in influenza virus titers compared with the placebo group 2.2% of recipients developed reduced susceptibility.
	Phase 3 (CAPSTONE-1), double-blind, placebo- and oseltamivir controlled RCT (n = 1064) <ul style="list-style-type: none"> 20-64 yrs old: 2:2:1 Ratio to receive baloxavir, oseltamivir, or placebo 12-19 yrs old: 2:1 Ratio to receive baloxavir or placebo 	Exclusion criteria (not all inclusive list): <ul style="list-style-type: none"> Pregnancy Weight < 40 kg BMI ≥ 40 kg/m² Severe influenza infection resulting in hospitalization 		<ul style="list-style-type: none"> The median time to alleviation of symptoms was 53.7 hours (95% confidence interval [CI], 49.5 to 58.5) with baloxavir, as compared with 80.2 hours (95% CI, 72.6 to 87.1) with placebo ($P < 0.001$). Median time to alleviation of symptoms was similar between groups. Baloxavir was associated with greater reductions in viral load one day after initiation of therapy in comparison to placebo or oseltamivir.

The FDA has approved Xofluza (Baloxavir Marboxil) for the treatment of acute uncomplicated influenza in patients 12 years of age and older who have been symptomatic for no more than 48 hours.

Xofluza (Baloxavir Marboxil) continued:

Recommended dose:

- Patient body weight 40 kg to less than 80 kg: Single dose of 40 mg
- Patient body weight at least 80 kg: Single dose of 80 mg.

Side Effects:

- Diarrhea, bronchitis, nausea, nasopharyngitis, and headache.¹
- In an ascending single-dose study involving healthy volunteers, baloxavir was administered up to the highest dose tested (80 mg) without safety concerns. It showed linear pharmacokinetic characteristics and a long plasma elimination half-life (range, 49 to 91 hours).³

Relevance to Patient Care:

In clinical trials, baloxavir was similar to oseltamivir with regards to time to alleviation of symptoms. It is notable that baloxavir showed greater reductions in viral load a day after initiation of therapy compared to oseltamivir.² The significance of this finding is unclear. Current CDC guidelines recommend neuraminidase inhibitors or baloxavir for the treatment of influenza for uncomplicated patients without specifying a preferred agent.⁴ In contrast, for patients with severe or complicated illnesses arising from influenza, the CDC recommends oseltamivir as the preferred agent because other agents such as baloxavir, have insufficient data in this high risk patient population. Baloxavir was not tested in high-risk patients, such as very young pediatric patients, hospitalized, critical and severely ill patients. There are currently no data for these patients and recommendations cannot be made at this time. However, clinical trials are underway to investigate the use of baloxavir in these patient populations. Baloxavir may be used as an alternative for the treatment of influenza resistant to other antivirals such as oseltamivir.

References:

1. Baloxavir marboxil [package insert]. Santa Monica, CA: GoodRx; 2018.
2. Hayden FG, Sugaya N, Hirotsu N et al. N Engl J Med. 2018 Sep 6;379(10):913-923.
3. Kawasaki A et al. 2238. A phase 1 study of safety, tolerability and pharmacokinetics of oral single dose S-033188, a novel anti-influenza agent, in healthy adult male subjects. Presented at ID Week, New Orleans, October 26-30, 2016. abstract
4. Centers for Disease Control and Prevention. Influenza antiviral medications: summary for clinicians. <https://www.cdc.gov/flu/professionals/antivirals/summary-clinicians.htm>

Naurin Khondoker
PharmD Candidate, Class of 2019
Long Island University

In Memoriam

Starting this year, we are creating a new column to commemorate NYSCHP members that have recently passed away. This column will appear on our News Brief periodically. Let us know (Office@nyschp.org) if you would like us to publish an article in memory of a former NYSCHP member.



Wai-Ying Lam, PharmD

It is with great sadness that we report the passing of one of our former members, Dr. Wai-Ying Lam. Wai-Ying obtained her undergraduate education at the University of Texas in Austin before moving on to the University of Houston for pharmacy school where she graduated in 2011. After pharmacy school, Wai-Ying completed her PGY-1 at the University of Texas Medical Branch (UTMB) Health in Galveston. Upon completion of her PGY-1, Wai-Ying moved to New York to pursue a PGY-2 in Infectious Diseases at the New York Presbyterian Hospital in 2012-2013. She then served as a Clinical Pharmacy Manager in Internal Medicine/Infectious Diseases at the New York Presbyterian Lower Manhattan Hospital from August 2013 to April 2014. Wai-Ying returned to UTMB in 2014 and served as the Clinical Practice Specialist in Infectious Diseases. During her time at UTMB, Wai-Ying mentored numerous students and residents and was one of the founding members of the antimicrobial stewardship program at the institution. Wai-Ying was a great resident, a dedicated pharmacist and a kind-hearted person who will truly be missed.

The University of Houston College of Pharmacy has established an endowment in her name. It was Wai-Ying's wish to make a gift to the University of Houston College of Pharmacy to further the development of future pharmacists. The annual income from the endowment will be used to support travel of an ID trainee to a scientific meeting (e.g., ID week). In order for the gift to be endowed in memory of Wai-Ying, the total amount of funds required is \$25,000. Thus far, \$8,200 has been raised from friends and family. If you wish to donate to this endowment, please use the following link: <http://igfn.us/vf/WaiYing>



Upcoming Grassroots Events

Grassroots Advocacy Legislative Visit Workshop and is inviting all members from all chapters to join!

Wednesday March 6th, 2019

Webinar time: 7 pm – 8:30pm

Co-facilitators: Andrew Kaplan, PharmD, BCPS, BCGP, Jamie Chin, MS, PharmD, BCOP, Johnny Hon, PharmD, BCPS, Mary Choy, PharmD, BCGP, FASHP, Michele B. Kaufman, PharmD, BCGP, Rosario Lazzaro, BSpHarm, MS, Kelly Bach, PharmD, BCPS, BCCCP, Megan Neville, PharmD candidate

Please register for the Legislative Workshop webinar with the link below:

<https://www.anymeeting.com/AccountManager/RegEv.aspx?PIID=ED58DE8781493B>

Grassroots Advocacy Law CE entitled “Grassroots Advocacy Breaking it Down to the Basics”

Thursday, March 14th, 2019

Available to the QUAD chapters to attend

Speakers: Senator Nick Spano and Jamie Chin, MS, PharmD, BCOP

St. John’s University College of Pharmacy and Health Sciences Advocacy Night

Wednesday, March 27th, 2019

Program time: 7 – 9 pm

St. John’s University: 8000 Utopia Pkwy, Jamaica, NY 11439

St. Albert’s Hall, room B70 (Amphitheater)

NYCSHP Members: Andrew Kaplan, PharmD, BCPS, BCGP, Karen Berger, PharmD, BCPS, BCCCP, FCCM, and Jamie Chin, MS, PharmD, BCOP

PSSNY Member: Carole Deyoe, Director of Pharmacy Practice at PSSNY

Grassroots Advocacy Law CE entitled “Getting to the Root of the Problem: NYS Legislative Update and Grassroots Solutions”

Monday, June 10th, 2019

Western Chapter Installation Banquet and CE

Speakers: Senator Nick Spano and S. Michael Milazzo, PharmD



Register Today! 2019

New York State Council of Health-system Pharmacists
58th Annual Assembly



April 11 to April 14, 2019

The Saratoga Hilton and City Center/Saratoga Springs, NY

Register online at:

www.nyschp.org/2019-58th-annual-assembly

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