

Quarterly Newsletter for



Summer Edition
2016

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NVSHP
Nevada Society of Health-System Pharmacists

Visit our Website www.NVSHP.org

HEADLINE NEWS

Congratulations Roseman University College of Pharmacy Henderson Campus Class of 2016!

NVSHP would like to congratulate all of the new graduates from Roseman University's College of Pharmacy class of 2016! We wish them the best and are confident in their ability to positively impact the lives of their patients.

"You dreamt and persevered through every endeavor. Now, you are poised to achieve. It is now your time; go out into the world and do good."

-Michelle Ahoobim	-Nasim Fahami	-Jeffrey Mendoza	-Monica Salari
-Omar Aly	-Suzanne Fote	-Jomar Mendoza	-Travis Schimmer
-Nikole Ategehchi	-Bradley Funk	-Christopher Merkle	-Patricia Schooling (Kerr)
-Luis Ayala	-Abdul Ghorbandi	-Shenekeia Miles	-Zicxlabeth Segovia
-Amanda Azarakshi	-Harinder Gill	-Biljana Milicevic	-Michael Shehata
-Hermon Habtom- Bariagabr	-Danial Golchian	-Violetta Mordukhayev	-Kourosh Shirazi
-Amanda Baun	-Melissa Hampton	-Venessa Morfin	-Babak Shirvani
-Miles Bernarte	-Megan Harrington	-Lesley Ann Mukai	-Ripa Shroff
-Jarrod Bigelow	-Camille Hechanova	-Matthew Nelson	-Kyle Smith
-Larry Bowman Jr.	-Steven Hoang	-Sylvia Nganga	-Julie Song
-Xiao Jiao Nie Brown	-Tyler Howe	-Reneta Ngha	-Rapunpong Sopat
-Vy Burns	-Susan Huynh	-Christina Nguyen	-Eric Sparks
-Dolly Cardona	-Eric Johnson	-Henry Nguyen	-Michelle Szeto
-Diana Carino	-Sarah Kahen	-Lan Nguyen	-Thomas Tang
-Hana Cereic	-Tery Kang	-Maggie Nguyen	-Lucy Taylor
-Armenuhi Chaparyan	-Caitlin Keller	-My Trang Nguyen	-Tannaz Tebbi
-Nha Chau	-Neda Khorrami	-Quynh Nhu Nguyen	-Shannon Toomey
-Vincent Chau	-Aaron Kim	-Quynh Nguyen	-Cindy Tran
-Stephania Cheng	-Michelle Kim	-Vi Nguyen	-Sherley Tsang
-Sin Cheung	-Daniel Krotin	-Vicki Nguyen	-Luan Tuong
-Larissa Chin	-Dorit Lavian	-Yen Nguyen	-Jessica Valenzuela
-Ka Chun Laurel Chiu	-Julie Lee	-Shadi Noghreian	-Reynaldo Villarreal III
-David Choi	-Jennifer Lindgren	-Lily Ann Nyangau	-Chelsea Alexis Vito
-Kassey Chon	-Henry Long	-Maile Olah (Galvan)	-Tam Vo
-Tessa Christensen	-Patrice Foudie Lumumba	-Tsuru Onello (Walker)	-Christin Vu
-Lena Chung	-Patty Ly	-Scott Pavuk	-Jason Wang
-Ashlee Cohen	-Clare-Lanie Macaraeg	-Hien Phan	-Kai-Chen Wang
-John DeVilbiss	-Renita Mahabir	-Lynda Phan	-Robert Wilcox
-Van Thanh Do	-Paul Manabat	-Payam Piroozmehr	-Ashley Wisrock
-Vanessa Dorado (Shurtleff)	-Monica Manandik	-Michael Pleshtiyev	-Kenneth Wong
-Amina Duh	-Yu Mao	-Rebeckah Plog (Huntley)	-Rebecca Yousefzadeh
-Adebola Durosawo	-Mahboubeh Mashayekhi	-Tanaz Refalian	-Angela Yuen
-Mashal Durrani	-Jesus Medina	-Sara Rosenthal	-Anjella Zaringhalam
-Amanda Faber			-Xu Zhang



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Pharm.D. Candidate 2018

Chapter News

Registration is **NOW OPEN**

2016 NVSHP Annual Meeting

2016 NVSHP Annual Meeting

PHARMACY PRACTICE TRENDS:
Present Day and Future Challenges

OCT. 15th, 2016
Nugget Casino, Sparks, NV

Be Heard. Stay Connected. Create Change.

Come join your peers and attend Nevada's only state-associated pharmacy meeting, welcoming all pharmacists, student pharmacists, pharmacy technicians, and allied healthcare professionals.

WHY: 4 hours of live CE (including 1 hour of law); Complimentary breakfast and lunch; Exhibitor showcase; Networking opportunities; Early bird rates available until **September 27th, 2016**

WHEN: October 15, 2016, Saturday (Registration starts at 8AM)

WHERE: JA Nugget Casino Resort, 1100 Nugget Ave, Sparks, NV, 89431

For more information and to register:

CLICK [HERE](#) TO REGISTER NOW!

Have a topic you are passionate about and would like to present to fellow pharmacists, students, and nurses? NVSHP would like to hear from you! Please email nvshp@nvshp.org if you would like to present a CE or know of someone who would be interested. Also, please submit any topics that you would be interested in learning about through a CE.

NVSHP Presents....

Annual Student and Residency Showcase



NVSHP and **Student Alliance** are excited to invite you to our 1st STUDENT WORKSHOP. This is a full 2-day event where local & national speakers will present on a number of career-related topics.

WHY: Career planning, residency showcase, leadership, speed interviewing, networking opportunities; Complimentary breakfast and lunch provided.

WHEN: September 24 & 25

WHERE: St. Rose Hospital, San Martin Campus | Alijan Room A/B

For more information and to register, please follow the link below:

WWW.NVSHP.ORG

Join us on Facebook

Like us on [Facebook](#), and stay up to date on upcoming events, and the latest news. Just go on Facebook, and type NVSHP in the search bar. Then invite your friends to like us too!

National and State Provider Status

By: Adam Porath, PharmD, BCPS AQ-Cardiology, BCACP

On April of 2016, the Nevada State Board of Pharmacy sent out a fax blast to all retail pharmacies regarding e-prescribing regulations. Subsequently, the Board Newsletter mailed out in July 2016 contained the same information which was aimed at clarifying who in a provider's office could legally transmit electronic prescriptions. There had been several instances reported to the Board where office staff had electronically submitted prescriptions without the knowledge of the prescriber. The fax blast and Board Newsletter clarified that only prescribers can legally send new prescriptions electronically and that office staff (i.e. RNs, MAs) should not have access to do so.



An unintended consequence of these Board communications was quickly realized by NVSHP. Medication therapy modifications by pharmacists working under collaborative practice protocols (CPP) sent to pharmacies electronically were no longer being accepted by community pharmacists. Pharmacists working under CPPs expressed to NVSHP their concerns that they could no longer communicate changes in drug therapy to community pharmacies by the safest and most efficient manner (i.e. electronic prescribing software).

As a result of these concerns, NVSHP sent Director at Large for Legislation, Adam Porath, to testify at the July Board of Pharmacy meeting in Las Vegas when it was learned that potential modifications to the electronic prescribing regulations would be discussed. Dr. Porath shared the concerns of NVSHP members regarding this issue and how unintentionally the Board communications had adversely impacted their pharmacy practice. Board Staff acknowledged the authority of pharmacists with CPPs to modify drug therapy under the "Pharmacy Practice Act" (NRS 639.0124). Additionally, Board staff committed to providing communication back to community pharmacists to further clarify the issue.

NVSHP will continue to monitor this issue as the electronic prescribing regulations are debated and discussed at the Board of Pharmacy. We are committed to supporting and advancing the practice of pharmacists with CPPs in Nevada.

Upcoming Board of Pharmacy Meeting

Continuing Education: CE credit of 4 hours, including 1 hour of law, will be given per day of Board meeting attendance. You are required to attend the board meeting for a full day to receive CE credit including the law credit. Remember to sign in for attendance.

Reno Meetings start at 9AM and are held at: Hyatt Place, 1790 E. Plumb Ln, Reno NV

Las Vegas meetings start at 9AM and are held at: Hilton Garden Inn, 7830 S. Las Vegas Blvd, Las Vegas, NV

- October 12 & 13: Las Vegas
- December 7 & 8: Reno

*"acknowledge a
pharmacists'
authority to manage
drug therapy under
collaborative practice
protocols per NRS
639.012"*

Diabetes Education

By: Alanna Whittaker, Pharm.D.

Metformin is the first line agent used in the treatment of diabetes due to its ability to reduce not only microvascular, but also macrovascular complications.

In April 2016, the Food and Drug Administration (FDA) issued updates related to labeling changes for metformin and metformin containing products. These new changes will expand the number of eligible patients who can receive this agent for the treatment of diabetes.

The new recommendation changes the renal function tests used to determine eligibility for metformin. The old cutoff of serum creatinine ≥ 1.4 mg/dL for females and ≥ 1.5 mg/dL have been changed to using the eGFR as the new standard. Metformin is now contraindicated in patients with eGFRs < 30 ml/min/1.73 m².

Metformin should not be initiated in patients with eGFRs 30 – 45 ml/min/1.73 m². Annual eGFRs should be performed. If patients on metformin have eGFRs between 30 – 45 ml/min/1.73 m² and the benefits outweigh the risks, then metformin should be continued. Patients who have an eGFR between 30 – 60 ml/min/1.73 m² who need to have radio contrast iodine dye imaging performed with a history of liver disease, alcoholism, or heart failure; or in patients who will be administered intra-arterial iodinated contrast should have their eGFR reevaluated 48 hours after imaging and metformin can be restarted if renal function is stable.

This differs from the old recommendation where patients on metformin needed to discontinue metformin 48 hours before and after imaging with radio contrast iodine dye.



Diabetes

“metformin guidelines have changed with new criteria on administration”

Education Committee Events

NVSHP will host its Annual Meeting at the JA Nugget in Sparks, NV on Saturday October 15th, 2016. All pharmacists, pharmacy technicians, pharmacy students, pharmacy technician students and other healthcare professionals are welcome to attend. Registration begins at 8 AM and programming starts at 9 AM. ACPE accredited CEs will be available with programming for pharmacists and pharmacy technicians and an exhibitor showcase..

Early registration ends October 1st, 2016, but attendees can register the day of the meeting as well.

Please mark this date on your calendar. NVSHP looks forward to seeing you there. More information including registration can be found on the NVSHP website: <http://www.nvshp.org>.

NVSHP would like to thank the residents of the Southern Nevada VA Health System, Sierra Nevada VA Health System and Renown Hospital for the CE presentations in June, 2016.

We wish you good luck in your future endeavors!

Meet the our NVSHP Board Member

Jennifer Mungcal, NVSHP Director-at-Large

By: Jennifer Mungcal, PharmD, BCPS



Jennifer Anderson graduated in 2005 with her Bachelor of Science in Applied Mathematics from Old Dominion University and taught high school math in Virginia Beach, Virginia for three years.

She was accepted into pharmacy school in 2008 and graduated with her Doctor of Pharmacy degree from Roseman University of Health Sciences in 2011. Jennifer went on to complete a PGY1 residency at Renown Regional Medical Center in 2012. Since finishing residency she has become a board certified pharmacotherapy specialist. She currently works as a clinical pharmacist at Tahoe Pacific Hospitals and also at Carson Tahoe Health.

Jennifer enjoys volunteering in a myriad of organizations including Nevada's biannual drug take back program, ASHP's CV review program, NVSHP, Delta Zeta Alumnae Group and Northern Nevada Alumnae Panhellenic Group.

Jennifer joined NVSHP in 2009 while still a student at University of Southern Nevada (now Roseman University of Health Sciences). She was encouraged by her pharmacy professors to become an active member of the profession by joining professional organizations such as NVSHP as well as ASHP. After graduation she remained a member of both NVSHP and ASHP. In 2014, with the encouragement of her pharmacy director, she escalated her general membership role to an elected position. She was elected Secretary in January 2015, and in January 2016 became the Director at Large of Education for Northern Nevada. A title she currently holds in addition to being Delta Zeta delegate for Northern Nevada Alumnae Panhellenic Group.

Passionate about her work, Jennifer believes it is important to become and remain involved in one's profession. Having a sense of what is beyond oneself is vital to giving back to the profession you are in and the community you are a part of. Jennifer prides herself on being in an organization that assists health-system pharmacists and technicians in advancing the field of pharmacy.

In her spare time she enjoys going to movies and concerts, visiting her 8 year old sister Madison in St. Louis, Missouri (mom and dad too!). She also supports her brother Jonathan Anderson as he works towards the 2020 Olympics in Greco Roman wrestling as a member of the U.S. Army World Class Athlete Program. She loves being an Aunt to two beautiful nephews, being an owner of an awesome Lhasa Apso, hiking, skiing, snowshoeing, bowling, swing dancing, yoga and traveling among other things.



Sugammadex: A rapid reversal of neuromuscular blockade induced by rocuronium and vecuronium

By: Achille Tiam, Pharm.D., Candidate Class of 2017

For the past few years, rocuronium bromide and vecuronium bromide have highly been used over succinylcholine for neuromuscular blockade, especially for surgeries and in emergency care. Unfortunately, the effects of these agents last long and consequently, increase the chances of adverse reactions such as tachycardia, hypertension, cardiac arrhythmia, and increased peripheral vascular resistance. Drugs such as neostigmine are available to reverse non-depolarizing neuromuscular blockade but their onset of action is 2 to 4 hours when administered orally and 10-30 minutes with parenteral formulation. On December, 2015, the U.S. Food and Drug Administration approved Bridion (sugammadex) injection as a revolutionary drug to reverse the effects of neuromuscular blockade induced by rocuronium bromide and vecuronium bromide.



Sugammadex is a selective relaxant binding agent that is FDA-approved for the reversal of rocuronium and vecuronium in adults. It is used off label for the same indication in infants, children and adolescents. For routine reversal, sugammadex is dosed intravenously as a single dose of 4 mg/kg for deep block and 2mg/kg for moderate block. If necessary, a readministration of rocuronium or vecuronium can be done 5-60 minutes after sugammadex. When used for immediate reversal, 16 mg/kg of sugammadex is to be administered approximately 3 minutes after administration of 1-2 mg/kg of rocuronium with a readmission waiting time of 24 hours. In all cases, the dose of neuromuscular blockades readministration should be adjusted for patients with mild to moderate hepatic impairment.

The drug can be administered over 10 seconds as rapid IV push and the use of normal saline as a flush is recommended before and after administration of sugammadex in the same IV line as other products. It is compatible with 0.9% sodium chloride, 5% dextrose, 0.45% sodium chloride and 2.5% dextrose, 5% dextrose in 0.9% sodium chloride, isolyte P with 5% dextrose, Ringer's lactate solution and Ringer's solution. Sugammadex remains stable when stored at 25°C and protected from light. A vial that is not protected from light should be used within 5 days.

This revolutionary drug does not have any known drug interactions, but it may increase the effects of anticoagulants and decrease the level of contraceptives. Patients that are using oral hormonal therapy should use a non-hormonal contraception for 7 days following sugammadex administration. Sugammadex is not recommended for dialysis patients or patients with severe renal impairment.

The most common adverse reactions observed are hypotension, headache, nausea, vomiting, and pain at injection site. Rare but serious adverse events include atrial fibrillation, atrioventricular block, bronchospasm, dyspnea, extrasystoles, pulmonary edema, supraventricular tachycardia, urticarial or ventricular fibrillation.

When compared to other drugs that reverse non-depolarizing neuromuscular blockade, literature demonstrates that sugammadex is superior because of its onset (>3 minutes), and its unique mechanism of action. In fact, Sugammadex works by forming a complex with rocuronium or vecuronium in plasma, therefore reducing the amount of neuromuscular-blocking agent available to bind to nicotinic receptors in the neuromuscular junction.

Sugammadex is a ground-breaking medication that can help patients recover sooner from the effects of rocuronium or vecuronium. Unfortunately, this drug is not efficacious as a reversal for other neuromuscular blockade agents. Although the safety of sugammadex was demonstrated in a few trials, healthcare providers should remain cautious when using in patients.

Henderson Community Expo Health Fair

By: Chanelle Felix, Pharm.D. Candidate Class of 2017

Health fairs provide an opportunity to promote health awareness by making personalized health information and screenings for dyslipidemia, diabetes and hypertension accessible to communities. As student pharmacists, we have the chance to show the community our capabilities as health care providers, as well as provide education about the effects of medications, life-style and also the benefits of point-of-care testing. Within the retail setting at our introductory pharmacy practice experience sites, there are limitations to point-of-care testing because of constrictions in time and resources. By providing health fairs, we offer the luxury of one-on-one testing and the opportunity to educate each patient individually about their results and what modifications they can do to improve their health.

In my personal experience at the Henderson Community Expo, I was able to identify a patient who was at risk for dyslipidemia and deliver to her information on how she could help save herself from a common disease state. In giving her information about her personalized health, as well as gaining information about her lifestyle, I was able to help her generate means to help her achieve her cholesterol, blood pressure and glucose goals. I was able to use my knowledge to provide her tools in achieving improved wellness. In addition to this specific patient, there were many like her, which my peers and I encountered. Together, we performed 32 glucose screenings, 34 blood pressure screenings and 27 cholesterol screenings. With supervision from Dr. Keith Wellman, alumni of Roseman University's College of Pharmacy, we identified at least 13 at-risk patients. In identifying these community members, we were able to direct them on how to take charge of their health, as well as provide intervention for those individuals who were not accustomed to regular visits with their primary care providers. As student health care providers, every positive interaction with a patient now can contribute to overall improved wellness within the community.



In addition to the opportunity that health fairs have offered to the Henderson community, they have also created a valuable means of training student pharmacists to apply what they have learned from the classroom to real-life practice situations. Participating with Student Alliance at these health fairs, I found myself to be more confident in patient interactions, especially with counseling. Additionally, I have become more proficient with glucose, cholesterol and blood pressure monitors. These experiences and skills allow transferability to everyday practices within any pharmacy setting. Overall, participating in health fairs is a dual opportunity for both patients and student pharmacists to learn and take home skills of value.

Although participation from health fairs varies from each experience, I believe that by taking the opportunity to attend these health fairs, many individuals within the community can benefit from these interventions. Attendance can mean initiating action against common disease states such as diabetes, dyslipidemia, hypertension and taking control of what often seems like an inevitable conclusion. In taking less than 15 minutes out of the day, one person can leave with a lifetime worth of increased comprehension and understanding on how to take charge of their health appropriately. As a student pharmacist I would encourage every student to participate in a health fair, if not for a learning experience, then for the opportunity to grow health awareness in Henderson by sharing valuable knowledge.

“student pharmacists in service to their community through point of care, counseling and education”

ASHP 2016 Summer Meetings & Exhibitions

By: Achille Tiam, Pharm.D. Candidate, Class of 2017

The last American Society of Health-Systems Pharmacists (ASHP) Summer Meeting and Exhibition was held on June 11-15, 2016 in Baltimore, Maryland. Attending this meeting was different from all the other meetings I had attended. I gained a lot of educational experience from it. Although the meeting was geared more towards current pharmacy residents, I was able to learn a lot from the “Meet and Greet with Pharmacy Leaders” event, and the “Student Leadership Development Workshop”.

The “Meet and Greet with Pharmacy Leaders” event was led by Sara J. White, a retired Director of Pharmacy at Stanford Hospital and Clinics in Palo Alto, California. Many other pharmacy directors and residency managers were present to help facilitate the event. While attending this event, I was able to meet and speak with other students and current pharmacy residents. This gave me a better understanding of the different pharmacy career fields and helped me strengthen my decision to pursue a residency program after graduation. In addition to the knowledge I received, I also walked away with a wide network of professionals that are ready to help me reach my educational goals.



The second rewarding event that I attended was the “Student Leadership Development Workshop”. The speakers at this event were Dr. Stephen J. Davis, a pharmacy manager at Texas Children’s Hospital in Houston, Texas and Dr. Michael Storey, a pharmacy manager and inpatient medicine and program director at Nationwide Children’s Hospital in Columbus, Ohio. During this workshop, I collaborated with various pharmacy leaders and students. I was able to learn concrete ways to incorporate leadership into my professional life. These tremendous and well talented speakers also enlightened me with leadership opportunities that are available for pharmacists.

I would recommend any student to attend the next summer meeting because of all the above experiences and also the opportunity to build outstanding curriculum vitae.

“building the pharmacy leadership of tomorrow one student pharmacist at a time”

United States Public Health Service, Excellence in Public Health Pharmacy Practice Award

Congratulations to our APhA-ASP/ASHP Vice President of Community Affairs and second year student, Donna Eom, for winning the USPHS Excellence in Public Health Pharmacy Practice Award. This prestigious award recognizes pharmacy student contributions to public health pharmacy practice. Donna was nominated by Dr. Mark Decerbo and presented the prestigious award in person by an Officer from the United States Public Health Service. Dean Stolte and Roseman’s College of Pharmacy are very proud of Donna’s accomplishments and her service to patients and the profession. Keep up the great work, Donna!



New FDA Approved Drugs for 2016

Drug Name	Active Ingredient	Date Approved	FDA-approved use on approval date
Adlyxin	lixisenatide	7/27/2016	To improve glycemic control (blood sugar levels)
Xiidra	lifitegrast ophthalmic solution	7/11/2016	To treat the signs and symptoms of dry eye disease
Eplclusa	sofosbuvir and velpatasvir	6/28/2016	To treat all six major forms of hepatitis C virus
NETSPOT	gallium Ga 68 dotatate	6/1/2016	A diagnostic imaging agent to detect rare neuroendocrine tumors
Axumin	fluciclovine F 18	5/27/2016	A new diagnostic imaging agent to detect recurrent prostate cancer
Ocaliva	obeticholic acid	5/27/2016	To treat rare, chronic liver disease
Zinbryta	daclizumab	5/27/2016	To treat multiple sclerosis
Tecentriq	atezolizumab	5/18/2016	To treat urothelial carcinoma, the most common type of bladder cancer
Nuplazid	pimavanserin	4/29/2016	To treat hallucinations and delusions associated with psychosis experienced by some people with Parkinson's disease
Venclexta	venetoclax	4/11/2016	For chronic lymphocytic leukemia in patients with a specific chromosomal abnormality
Defitelio	defibrotide sodium	3/30/2016	To treat adults and children who develop hepatic veno-occlusive disease with additional kidney or lung abnormalities after they receive a stem cell transplant from blood or bone marrow called hematopoietic stem cell transplantation
Cinqair	reslizumab	3/23/2016	To treat severe asthma
Taltz	ixekizumab	3/22/2016	To treat adults with moderate-to-severe plaque psoriasis.
Anthim	obiltoximab	3/18/2016	To treat inhalational anthrax in combination with appropriate antibacterial drugs.
Briviact	brivaracetam	2/18/2016	To treat partial onset seizures in patients age 16 years and older with epilepsy.

Become involved with NVSHP!

NVSHP is seeking members who would like to actively participate in changing the profession of pharmacy. We would love to have you serve on one of our standing committees, Education, Membership and Legislation. If you are interested in becoming more involved, please email us at nvshp@nvshp.org.

SAVE the DATE with NVSHP

September

Policy Week—September 19 - 22

Student Workshop/Residency Showcase-
September 24 & 25

October

Annual—October 15

November

American Diabetes Month

December

ASHP Midyear Clinical Meeting & Exhibition— December 4-8

