

NoDak Pharmacy Journal

Volume 30, No. 2 March 2017

Convention Schedule pg 6

ND Annual Pharmacy Convention

April 20-23, 2017
Minot, ND



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COLLEGE OF PHARMACY,
NURSING, AND
ALLIED SCIENCES



2017 Calendar

MARCH

Mar 12 Daylight Savings begins

Mar 13 National Nap Day

Mar 17 Happy St. Patrick's Day

Mar 21 **Legislative Day/Ice Cream Social, ND State Capitol, Bismarck**

Mar 21 NDPHA/NDPSC Board of Directors Meeting, Bismarck

Mar 24 Deadline for re-referrals of bills in second house to Appropriations Committees

Mar 24-27 APhA Annual Meeting & Expo, San Francisco CA

APRIL

April 1 April Fools' Day

April 5 Bills and Resolutions must be reported out of committee in second house

April 14 Good Friday

April 17 Easter Sunday

April 21-23 132nd ND Annual Pharmacy Convention, Grand Hotel, Minot

April 25 Arbor Day

April 26 ND Legislative Session limited to 80 days

MAY

May 5 Cinco de Mayo

May 6 National Nurses Day

May 14 Mother's Day *Happy Mother's Day to all Mothers & Grandmothers*

May 20 Armed Forces Day

May 29 Memorial Day

NoDak Pharmacy Journal Submission Policy

The ND Pharmacists Association is pleased to accept submissions for the Journal. Submissions should be reasonable in length due to space considerations. In order to ensure the quality of our publication, editing for grammar, spelling, punctuation and content may occur. Articles, photos, and advertising should be submitted in electronic form.

To submit, please email NDPhA at:
lgiddings@nodakpharmacy.net

**The deadline for the Next Issue is:
June 7, 2017**

NoDak Pharmacy Journal

1641 Capitol Way • 701-258-4968
www.nodakpharmacy.net
lgiddings@nodakpharmacy.net

ADVERTISING CONTACT INFORMATION

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Colleagues,

OUR State Convention will be held in Minot from April 20 through April 23, 2017. Please take a moment to register for this memorable event through the registration form located in this newsletter. An online registration form or fillable PDF is also available at <http://www.nodakpharmacy.net> (under the convention tab). This is an excellent opportunity to reconnect with your pharmacy friends, take time to delve into an "interesting" discussion, honor your colleagues with your presence at the award ceremony, participate in the silent auction, and take away a new treasure to add to your home, man cave, or pharmacy! I am excited to highlight several of the CE events scheduled for the conference:

- Thursday, April 20, Dr. Elizabeth Skoy and Dr. Alicia Fitz will conduct "Point of Care testing" training. This NACDS certification program consists of home study and interactive training focusing on Strep, Influenza, Hep C, and HIV screening. Twenty hours of CE are available through completion of this program.
- Hans Wilkie, FACHE, MPH, MHA, R.Ph. will be present again this year, providing an update on Health Care Reform.
- A Medicaid update will be presented by Brendan Joyce.
- Other presentations will focus on diabetes, antimicrobial stewardship, the new oral anticoagulants, Alzheimer's research, and pain management, to mention a few!

★ ★ ★ **The Legislative Day/Pharmacy Rally '17** ★ ★ ★

★ ★ ★ **TUESDAY, MARCH 21, 2017** ★ ★ ★

★ ★ ★ **LEGISLATIVE HALL** ★ **STATE CAPITOL** ★ ★ ★

11 AM - 2 PM

★ ★ ★ **ICE CREAM SOCIAL & RALLY IN THE GREAT HALL** ★ ★ ★

See you at the state Capitol for Legislative Day on March 21st and the convention in April! Please get involved in your association!!

Wanda Roden

President NDPhA

NDPhA 2017 convention schedule

Thursday, April 20

7:30 AM Registration – All Day Seminar: Point of Care Testing Training
Elizabeth Skoy PharmD & Alicia Fitz PharmD

Friday, April 21



BISON PRIDE DAY!

7:00 AM - 9:00 AM Breakfast

7:00 AM - 1:30 PM Registration

7:30 AM - 1:00 PM Vendor Fair

8:00 AM - 9:00 AM **Health Care Reform - Product Theatre**
Hans Wilkie PharmD

9:00 AM - 10:00 AM **National Diabetes Prevention Program**
Nikki Johnson M.S., R.D., L.R.D.

10:00 AM - 10:15 AM Break

10:15 AM - 11:15 AM **Naloxone**
Concurrent Session Elizabeth Skoy PharmD

10:15 PM - 11:15 AM **Alzheimers Research**
Concurrent Session Jagdish Singh PharmD

11:30 PM - 1:00 PM Lunch - Vendor Fair

1:00 PM - 2:00 PM **Integrative Medicine - GI & Immune System**
Concurrent session Steve Irsfeld RPh

1:00 PM - 2:00 PM **Law Update/Medical Marijuana**
Concurrent session Mark Hardy PharmD

2:00 PM - 3:00 PM **“The impact of skin infections on U.S. healthcare and the role of single dose Orbactiv”**
Casmiar Nwaigwe, MD
Sponsored by The Medicines Company

3:00 PM - 3:30 PM **Ice Cream Social**
Sponsored by Dakota Drug

3:30 PM - 5:00 PM **NDPhA 1st Business Session**

6:00 PM - 7:00 PM **Social**

7:00 PM **President Elect Banquet & Awards**



Saturday, April 22

7:00 AM - 8:00 AM Breakfast

7:30 AM - 11:30 AM Registration

7:00 AM - 8:00 AM **Medication Safety**
Natasha Nicol PharmD

8:00 AM - 9:00 AM **Immunizations**
Andy Noble - CDC

9:00 AM - 10:00 AM **Antimicrobial Stewardship**
Zach Marty PharmD

10:00 AM - 11:00 AM **New Oral Anticoagulants (NOACs)**
Mike Gulseth PharmD

11:30 AM - 1:00 PM Lunch

1:00 PM - 2:00 PM **Neonatal Abstinene Syndrome**
Concurrent session Siera Zimmermam PharmD

1:00 PM - 2:00 PM **Medicaid Update**
Concurrent session Brendan Joyce PharmD

2:00 PM - 4:00 PM **Drugs of Abuse**
Rob Browne - BCI Task Force

2:30 PM **Silent Action Begins**

4:15 PM - 5:15 PM **NDPhA 2nd Business Session**

5:30 PM - 6:00 PM **Pharmacy Phun Run**
Sponsored by Dakota Pharmacy

6:30 PM - 7:00 PM **Past President's Social**

7:00 PM - 8:30 PM **President's Banquet & Awards Ceremony – Live Auction to Follow**
Sponsored by Dakota Drug

Sunday, April 23

7:30 AM - 9:00 AM Breakfast

8:00 AM - 9:00 AM **NDPhA 3rd Business Session**

9:00 AM - 12:00 PM **Pain Symposium**

NDSU Point of Care Testing Training

Practice-based Community Pharmacy Point-of-Care Testing Certificate Program

The North Dakota State University - College of Health Professions - School of Pharmacy is excited to partner with The National Association of Chain Drug Stores to provide a Point of Care Testing Certificate. The National Association of Chain Drug Stores is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education.



Practice-based Community Pharmacy Point-of-Care Testing Certificate ACPE Universal Activity #0206-9999-15-012-B04-P. Initial Release Date: 1/08/2015; Expiration Date: 1/08/2018.

The course consists of an online self-study portion and live seminar portion. The live seminar will take place on Thursday, April 20th, 2017 at the Grand Hotel, 1505 North Broadway, Minot, ND. Registration will begin at 7:30 am. Lunch will be provided.

Target Audience

This course provides community pharmacists and members of academia, industry and government with the skills necessary to develop a testing program for influenza, Group A streptococcus, HIV and hepatitis C.

Claiming Credit

Continuing pharmacy education (CPE) credit will be awarded for the certificate training course only. This is a practice-based activity and is primarily constructed to instill, expand or enhance practice competencies through the systematic achievement of specified knowledge, skills, attitudes and performance behaviors.

Successful completion of the live seminar component involves passing the final exam with a grade of 70 percent or higher and demonstrating proficiency in diagnostic testing techniques. Successful completion of this component will result in 8.0 contact hours of continuing pharmacy education credit. Successful completion of the self-study component involves passing the self-study assessment questions with a grade of 70 percent or higher and will result in 12.0 contact hours of continuing pharmacy education. Attendance and participation are required before obtaining CPE credit. Partial credit will not be awarded.

CPE Monitor, a national, collaborative effort by ACPE and the National Association of Boards of Pharmacy (NABP) to provide an electronic system for pharmacists to track their completed PCE credits, went into effect on Jan. 1, 2013. NACDS, as an ACPE-accredited provider, is required to report pharmacist CPE credit using this new tracking system. Pharmacist participants must provide their NABP e-Profile identification number and date of birth (in MMDD format) when they register for a CPE activity. It will be the responsibility of the pharmacist to provide the correct information (i.e., e-Profile identification number and date of birth in MMDD format). If this information is not provided, NABP and ACPE prohibit NACDS from issuing CPE credit. Online access to their inventory of completed credits will allow pharmacists to easily monitor their compliance with CPE requirements and print statements of credit. Therefore, NACDS will not provide printed statements of credit to pharmacists. If you have not signed up for CPE Monitor, please go to MyCPEMonitor.net.

Learning Objectives

Live Certificate Course

Introduction and Use of Point-of-Care (POC) Tests by Pharmacists

- Identify opportunities for pharmacists to expand the scope of their practice in the community setting through the utilization of POC tests.
- Summarize the prevalence and impact of various infectious diseases, including diabetes, dyslipidemias, influenza, Group A streptococcus, HIV and hepatitis C in the United States.

Physical Assessment

- Discuss the value and limitations of various physical assessment procedures, including temperature, pulse, blood pressure, respiratory rate, pulse oximetry and physical inspection.

Continued on pg 8

NDSU Point of Care Testing Training

- Describe the procedures for conducting a systematic physical assessment and identify normal and critical findings.
- Interpret physical assessment data and recognize limitations of the data.

Physical Assessment Competency

- Demonstrate the ability to appropriately collect a patient's temperature, pulse, blood pressure, respiratory rate and pulse oximetry.

Disease State Presentation and Patient Cases

- Differentiate influenza, Group A streptococcus, HIV and hepatitis C from other disease states with similar presentations.
- Discuss the complications associated with influenza, Group A streptococcus, HIV and hepatitis C.
- Given a patient case, identify patients that may qualify for pharmacy-based POC testing by a pharmacist versus those that require immediate referral to a physician/provider.

Specimen Collection

- Describe the process for collecting patient specimens, including throat swab, nasal swab, oral fluid and whole blood.
- Demonstrate the ability to correctly collect patient specimens, including throat swab, nasal swab, oral fluid and whole blood.

Pharmacy Law and Risk Management

- Define CLIA.
- Explain CLIA-waiver and the process for becoming a CLIA-waived site.
- Recognize the procedures necessary for legal processing of CLIA-waived tests.
- List at least three risk management techniques to manage liability when conducting CLIA-waived tests.
- Search statutes and regulations to determine his/her state's requirements for pharmacist involvement in CLIA-waived testing.

Developing and Implementing a POC Testing Service

- Discuss specific strategies for designing and implementing a successful pharmacy-based POC testing program.
- Explain how to bill for POC testing using the appropriate CPT codes.
- Document services in a manner appropriate for evaluating patient progress, sufficient for billing purposes, and that facilitates tracking clinical and financial outcomes.

Test Utilization and Interpretation

- Given the performance characteristics of a test (e.g., sensitivity, specificity, percent agreement, etc.), determine the reliability of the test in a community pharmacy setting.
- Identify ways for community pharmacists to maximize the reliability of a given diagnostic test.
- Discuss some limitations to utilizing POC tests in the community pharmacy setting.
- Recognize common missteps in POC test processing and interpretation that could lead to incorrect results.
- List the steps a pharmacy can take to ensure compliance with Good Laboratory Practice (GLP) standards.

POC Cases and Proficiency Assessment

- Identify clinically unstable patients who should be immediately referred to the appropriate source of care.
- Provided a patient scenario, make recommendations for the use of POC tests.
- Develop a patient care plan based on medical history, physical assessment data and results of POC tests.

Home-Study Course

Introduction

- Recognize the need for pharmacist intervention in the community setting to improve patient access to medical care through the use of point-of-care tests.

Continued on pg 9

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- Summarize testing recommendations for influenza, Group A streptococcus, HIV and hepatitis C.

Target Disease States

- Describe the transmission and pathogenesis of influenza, Group A streptococcus, HIV and hepatitis C.
- Identify patients at high-risk for acquiring and experiencing complications related to influenza, Group A streptococcus, HIV and hepatitis C.
- Summarize the time course of influenza, Group A streptococcus, HIV and hepatitis C infections.
- Discuss the management options for a patient with influenza, Group A streptococcus, HIV and hepatitis C infection.
- List important counseling points for prescription medications used to treat influenza, Group A streptococcus, HIV and hepatitis C infections.

Physical Assessment

- List common signs and symptoms of influenza, Group A streptococcus, HIV and hepatitis C infections.
- Describe the steps involved with the physical assessment of a patient presenting to a community pharmacy with an ongoing infectious disease.

POC Tests

- Recognize how POC tests differ from the historical “gold standards” for diagnostic testing.
- Define the terms sensitivity, specificity, positive predictive value and negative predictive value.
- Describe how POC tests may be utilized in the community pharmacy setting as part of innovative practice models.
- Explain what it means for a diagnostic test to be CLIA-waived and what is required in order to use CLIA-waived POC tests in the community pharmacy setting.

Continued on pg 11

Student Auction Donation Form

PLEASE PRINT INFORMATION BELOW AND RETURN TO:
PhAC AUCTION, NDPhA, 1641 Capitol Way, Bismarck, ND 58501-2195
Fax: 701-258-9312 • Ph: 701-258-4968 • Email: ndpha@nodakpharmacy.net

DONOR Name

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DOLLAR VALUE



DELIVERY IS THE RESPONSIBILITY OF THE DONOR.

Items are appreciated by 10:00 AM-Saturday, April 22
The Auction will be held on **Saturday, April 22, 2017.**

The Pharmacy Advancement Corporation Scholarship Annual Auction will be held Saturday April 22, 2017. The auction committee would like to invite everyone to participate by donating items. The North Dakota Pharmacists Association is celebrating 132 years so come on you woodcrafters, quilters, and other artisans help us celebrate this momentous occasion. This year we will be starting the silent auction at 2:30 pm, allowing more opportunities for convention attendees to participate. The highlight of the evening will be the "live" auction following the President's Banquet. Please forward any questions to Lorri at ndpha@nodakpharmacy.net or call 701-258-4968. Thank you for your participation in the past and we look forward to another outstanding auction.

NDSU Point of Care Testing Training

POC Tests in Practice

- Outline the process and key considerations of making a pharmacy-based infectious diseases management program operational and integrated with existing services.
- Explain the legal, regulatory and liability issues involved in offering a pharmacy-based infectious diseases management program.
- Discuss important considerations in documenting, marketing and obtaining compensation for a pharmacy-based infectious diseases management program.
- Identify measures to track the economic, clinical and humanistic outcomes for a pharmacy-based infectious diseases management program.

Home Study Competency Assessment

- Online multiple-choice assessment

Faculty:

Elizabeth Skoy, PharmD

Alicia Fitz, PharmD

Fees: (Class size will be limited to the first 20 registered participants)

\$300.00

Refund Policy:

North Dakota State University (NDSU) is a licensed partner, Joint Provider of this NACDS certificate program. If you decide that you cannot complete the program because of time restraints, and/or must cancel last minute for any kind of emergency, the fee to cancel will be \$100. NDSU must receive your cancellation notice in writing at least one week prior to the live program offering. After that, there will be no refunds granted. Registration fees cannot be re-allocated to future offerings of this certification program due to the multiple steps involved with processing CE credits.

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For questions relating to this course please contact:

Larry Patnaude, PharmD

Director, Pharmacy Continuing Education

North Dakota State University – College of Health Professions – School of Pharmacy

Lawrence.patnaude@ndsu.edu

To register for the course, please go to the link below:

https://www.ndsu.edu/pharmacy/continuing_education/poc_cert/

Dispensing Prescriptions generated via Telemedicine encounter

By Mark J Hardy, PharmD, Executive Director

The North Dakota Board of Medicine is in the process of finalizing rules relative to telemedicine practices provided to our citizens. There are a few important tenets of care via a telemedicine encounter:

- The practice of medicine is deemed to occur in the state where the patient is located. The practitioner providing that care to North Dakota residents needs to be licensed to practice in North Dakota.
- The standard of care and ethics of medicine are uniform, whether practicing traditional face to face office visit or through telemedicine encounters. The Board of Medicine allows patient/practitioner relationship to be developed through a telemedicine encounter. However, this examination must be equivalent to an in person examination. There must be a video component for clear interaction, utilization of the appropriate tests and diagnosis methods to assure the same standard of care that would be expected in the traditional evaluation. Therefore, an examination consisting only of a questionnaire and/or audio conversation is not deemed to be appropriate or legitimate.
- After an appropriate, legitimate telemedicine encounter the practitioner may prescribe the patient medication according to their discretion and judgment appropriate to their diagnosis.

For pharmacies and pharmacists this expansion of medical care can certainly create consequences for determining the legitimacy of prescriptions being presented for patients that have acquired them through a telemedicine encounter.

The Board of Pharmacy's guidance to you in the case of determining the legitimacy of prescriptions being presented by patients that have acquired them through a telemedicine encounter includes the following potential actions:

1. Have a discussion with the patient about the interaction with the prescriber and should there be any concerns about the basis for the prescription we would ask that you determine if there was a valid patient/practitioner relationship.
2. In order to ascertain this it may be appropriate to contact the prescriber to discuss the patient's prescription with them. It is not necessary to garnish all diagnostic data, such as their labs. However, you should feel comfortable that good patient care was administered. If for some reason you are unable to come to this conclusion, or you are unable to make contact with the prescriber or their representative for discussion this should be cause for concern.
3. Verifying their licensure with the appropriate licensing Board may also be appropriate in these cases.

As with *any* pharmaceutical care rendered the Board expects you to use your professional discretion in each prescription. In no way is there a hard and fast rule, check list or an easy method to determine the absolute legitimacy of prescriptions given the multitude of ways a patient can receive medical care. A crucial responsibility is placed on you, as professionals to take due diligent efforts to feel comfortable that the prescription is legitimate and appropriate. Lastly, the most important final check is your responsibility to counsel the patient on each prescription.

It is important to report any concerns with prescribing activities to the Board of Pharmacy and/or the appropriate licensing Board.

As always, should you have any questions about this or another topic, please feel free to contact the Board office.

Message from the NAPT Chairperson

On behalf of the NAPT Scholarship Committee I would like to congratulate this year's recipients:

Kenzie Markwardt, Bismarck; Megan Steinmetz, Carson; Courtney Doe, Killdeer; and Nathan Belgarde, Grand Forks. Good luck on your career as pharmacy technicians!

All technicians are encouraged to join the Executive Board members at the 132th ND Annual Pharmacy Convention this spring. The convention will be held April 20-23 in Minot at the Grand Hotel. This is a great opportunity to receive continuing education, meet fellow technicians and grow in the profession. The NAPT General Business Meeting is scheduled for Saturday April 22 from 11:30-1:00pm during lunch, please join us.

The NAPT Executive Board will have the following positions open for the upcoming 2017-2018 term: Vice President/President Elect, Secretary and Treasurer. I encourage all North Dakota NAPT members to cast your vote by filling out the ballot and returning it by Wednesday, April 12th. You will find the ballot in this issue of the NoDak.

Fall Conference plans are underway for an exciting weekend of continuing education and networking. The conference will be held in Bismarck on September 15-16 at the Ramkota Hotel. Stay tuned for more information in the coming months.

Stay informed... check out the "NAPT" tab on the NDPhA website.

I look forward to seeing you at the North Dakota Annual Convention in Minot.

Donna Kisse

Chairperson

NAPT Board of Directors

Chairperson

Donna Kisse
Employer: Thrifty White Pharmacy, Fargo
Work#: 701-269-8747
Email: gdkisse@hotmail.com

President

Tracy Lindsey
Employer: Fargo VA
Work#: 701-232-3241 Ext 92852
Email: tlindsey101@yahoo.com

Vice-President

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Secretary

Autumn Guilbert
Employer: White Drug, Rugby
Work#: 701-776-5741
Email: autumn_guilbert@hotmail.com

Treasurer

Alexandra Spilman
Employer: Sanford Health
Work#: 701-234-5601
Email: alexandrajune6832@gmail.com

Parliamentarian

Danika Braaten
Employer: Northland Community & Technical College
East Grand Forks, MN
Work#: 218-793-2568
Email: danikaj@hotmail.com

Member-at-Large

Arlene Monson
Employer: CVS Pharmacy
Work#: 701-852-4068
Email: monsonized30@gmail.com

Member-at-Large

Twana Dick
Employer: Dakota Drug Co/Mountrail County Medical Center
Work#: 701-628-2255/701-628-2424, Ext 147
Email: dakdrug@gmail.com

ND Board of Pharmacy Technician Liaison

Diane Halvorson
Employer: Vibra Hospital, Fargo
Work#: 701-451-6632
Email: dhalvo1034@cableone.net

NDSCS Pharmacy Technician Program Liaison

Barbara Lacher
Employer: ND State College of Science, Wahpeton
Work#: 701-671-2114
Email: barbara.lacher@ndscs.edu

NDPhA Liaison

Mike Schwab
NDPhA Executive Vice President
Work#: 701-258-4968
Email: mschwab@nodakpharmacy.net

Did You Know...

If you are a North Dakota Registered Pharmacy Technician you are a member of Northland Association of Pharmacy Technicians (NAPT).

We would love to have you become involved!

Congratulations!

NAPT Scholarship Recipients

\$500 – Kenzie Markwardt – Bismarck, ND

\$500 – Megan Steinmetz – Carson, ND

\$400 – Courtney Doe – Killdeer, ND

\$400 – Nathan Belgarde – Grand Forks, ND

Save the Date!

NAPT Fall Conference
September 15 & 16, 2017
Ramkota Hotel
Bismarck, ND

Get to know the NAPT Executive Board Candidates:

VICE PRESIDENT/PRESIDENT ELECT CANDIDATE: Arlene Monson

I am Arlene Monson. I have been in the pharmacy world since 2011 at CVS Pharmacy. I got my certification in 2014, then became Lead Technician. I am currently involved in my District 2 board. I am secretary of the Minot Gun Club, also coach youth shooting. I am involved with my church. My hobbies are trap shooting, hunting, outdoors, mowing the lawn, and spending time with my family.

I believe I would be a great asset as the Vice President because I am involved in many things. I love to help out where and when I am available. Just let me know what I can do, I am willing to learn! Pharmacy is always changing and having a vast variety of knowledge from different areas is great to have. Thank you for your consideration.

VICE PRESIDENT/PRESIDENT ELECT CANDIDATE: Twana Dick

My name is Twana Dick and I am running for the NAPT Vice President position. Pharmacy really became a large part of my life when my husband Terry and I purchased Dakota Drug Co. in Stanley in 2009. Moving to a small community has opened the door to new opportunities and experiences. We found that not only did we own the drug store, Terry also became the contract Pharmacist for the area hospital. Spring of 2010 the Pharm Tech position became available at the hospital and because it was a part-time position they were having a hard time getting applicants, so to fill the need for the community, I enrolled into the PATSIM program to fill the position at the hospital and to help as needed at the store. I find being a Pharmacy Technician rewarding and challenging, especially with the opportunity of seeing both the retail and hospital aspects of the profession. I joined the NAPT Board in April of 2016 as a Member-at-Large to get more involved in the profession and to challenge myself to grow further as a Technician.

SECRETARY CANDIDATE: Lindsay Cizek-Cribb

My name is Lindsay Cizek-Cribb and I am an employee-owner with Thrifty White Pharmacy and work in the Fargo central sites location. I began my career as a pharmacy technician with Thrifty White Pharmacy 12 years ago and have grown into several leadership roles within the company. Most recently I am in the position of Specialty Pharmacy Operations Manager where I oversee the day-to-day operations of our Specialty Pharmacy services. I would like to serve as secretary on the NAPT as I have a strong desire and commitment to enhancing and growing the role of pharmacy technicians in the state of North Dakota.

TREASURER: Alexandra Spilman

My name is Alexandra Spilman, I work at Sanford Hospital Pharmacy in Fargo and I am the Pharmacy Technician Supervisor. I live in West Fargo with my husband, Greg, and my 2 children, Dominic and Kendall. I enjoy spending time with my family, golfing, doing puzzles, and playing games. I want to be the Treasurer for NAPT because I want to help this Organization to continue to serve Technicians in the state of ND. I believe in our purpose and want to assist in providing quality guidance and CE for all levels of technicians. If each of us does our part we can continue to improve healthcare for patients by the work we do. Being the voice for technicians in our State, the Board will continue to expand technician roles and responsibilities and I am excited for our future.



Northland Association of Pharmacy Technicians

Executive Officer Ballot

Please vote once for each position

VICE PRESIDENT/PRESIDENT ELECT:

_____ Arlene Monson

_____ Twana Dick

SECRETARY:

_____ Lindsay Cizek-Cribb

TREASURER:

_____ Alexandra Spilman

***Please complete this form and
return to:***

NDPhA

Attention: NAPT Election

1641 Capitol Way

Bismarck, ND 58501

Must be postmarked by:

April 12th, 2017



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Interdisciplinary Education Jump-Starts Future Career Paths

By Carol Renner, Office of the Dean, Communication Specialist
NDSU College of Health Professions



“Clear!” as well as audible 30-second counts are heard as North Dakota State University students take on their roles to learn how a team must seamlessly work together in an emergency situation. Carl Shapiro serves as their patient—talking, breathing and exhibiting signs of distress.

In class sessions, more than 130 pharmacy and nursing students learn how to quickly react in simulated code situations during each semester at NDSU. It’s part of interdisciplinary and high tech education in the NDSU College of Health Professions to prepare students for future healthcare careers.

Simulation Lab instructors control Carl, the high-tech patient. Via computer, they can change his

breathing, speaking, status, heart rhythms and other functions. The lab provides third-year pharmacy students and senior nursing students an opportunity to work together as a team. The investment to offer such sessions includes the high-tech mannequins, which can cost more than \$80,000 per mannequin.

Students learn various team members’ roles under critical scenarios that require expertise in a fast-paced team environment for optimum patient outcomes.

“The simulation allows students to learn the code algorithm for care and the medications associated with acute cardiac life support (ACLS),” said Kristopher Wensmann, pharmacy practice resident leading the activity during the academic year.

Students are assigned roles in the Simulation Lab experience, administering CPR and medications, recording each step, using a defibrillator, learning closed-loop communication among the team, and how they might react in an emergency situation. Sessions are video-recorded and the team reviews their performance with instructors, gaining valuable knowledge.

“Having solid interprofessional skills is important because the healthcare field depends on so many different professions working together,” said Wensmann. “This simulation is one way to help students to see the larger picture and become more aware of their role in healthcare and where their role can be improved.”

Pharmacy and nursing classes began this joint training in 2015 at NDSU. The Simulation Lab offers a unique educational experience for students.

“To be able to work as a team, foster good communication among all team members, and to feel comfortable to be able to initiate a code if they witness one happen,” are some of the benefits, according to Maggie Mackowick, assistant professor of practice in nursing.

Wensmann views the training as critical. “Communication, leadership, professionalism, and being able to think and react in high stress situations are some of the opportunities for growth.”



Providing the team approach to both nursing and pharmacy students in the code simulations makes NDSU's program unique.

Third-year pharmacy student Susan Lyons plans to eventually work in a community or hospital pharmacy. She said one aspect of the training stood out. "How well we (pharmacist students and nursing students) worked together, without knowing each other or having ever worked together before. I also liked how well this simulation represented real-life situations," said Lyons.

Such training is valuable, according to students. "I always thought a situation like this would be chaotic with poor communication, but during this simulation, it showed how well healthcare professionals work together and communicated in order for things to be recorded," according to Lyons.



More than 130 NDSU pharmacy and nursing students each semester participate in interdisciplinary training which includes sessions such as code experience in the Simulation Lab in Sudro Hall. Students gain expertise in fast-paced team environments to prepare them for future careers in health professions.

Pharmacy student Mai Hoang used a defibrillator during a code training session and notes that team members stayed calm and on task. "I learned how to read and differentiate the rhythms, such as ventricular fibrillation and ventricular tachycardia. I also learned how to communicate and collaborate with other team members in a stressful situation."

Healthcare employers seek graduates who are adept at team-based care that involves multiple professions, and accrediting bodies are urging program leaders to emphasize interprofessional collaboration.

"Recognizing that the roles for future pharmacists are ever expanding, we also are making strides within our curriculum," said Charles Peterson, dean of the College of Health Professions at NDSU. "Through efforts such as the Simulation Lab experience and other initiatives, we are preparing students to be part of an interdisciplinary healthcare team that serves a variety of patients, clients and needs."



NDSU pharmaceutical sciences grad student Tayebah Marzijarani won NDSU's Three Minute Thesis Competition based on her pancreatic cancer research with Dr. Sanku Mallik. She will now go on to regional competition.

Pharm Sci Student Studying Cancer Treatment Wins Three Minute Thesis Competition

By Carol Renner, Office of the Dean, Communication Specialist
NDSU College of Health Professions

A graduate student studying cancer treatment gave the winning presentation at NDSU's Three Minute Thesis Competition, hosted Feb. 1 by the NDSU College of Graduate and Interdisciplinary Studies.

Tayebah Marzijarani, a doctoral student in pharmaceutical sciences, presented "Targeted Drug Delivery in Pancreatic Cancer" during the third annual competition, which was sponsored by Sanford Health. Her task was to explain her

complex scientific research to a general audience in three minutes or less.

Marzijarani's research examines chemotherapy delivery systems, looking for ways to target the treatment on cancer cells without being toxic to healthy cells.

"This represents four years of my research, and presenting all those years of work in just three minutes is really hard," said Marzijarani, whose faculty adviser is Sanku Mallik, professor of pharmaceutical sciences. "But, this is really good practice, because it's important to understand how to talk to people who are not from my major. There are different audiences, different backgrounds, and we should be able to explain scientific research in layman's words so everyone can understand it."

Her career goal is to work in a research laboratory at either a pharmaceutical company or university. "It doesn't matter where I am or what country I am in, I would do my best to help improve human health."

Marzijarani earned \$1,000 and will represent NDSU at the regional competition of the Western Association of Graduate Schools in Seattle. Finalists earned \$250 for advancing from the competition's eight preliminary rounds.

Pharmaceutical sciences student Farnaz Fouladi also was a finalist in the competition. She studies "The Role of the Gut Bacteria in Sustained Weight Loss after Gastric Bypass Surgery." Fouladi's adviser is Kristine Steffen, associate professor of pharmaceutical sciences.

Five students from the College of Health Professions participated in the competition, including two students in the doctor of nursing practice program whose research covered chronic pain management and health needs assessment of women reentering the community after incarceration.

The Three Minute Thesis Competition began with 42 graduate students from a variety of disciplines competing in early rounds. Their objective was to quickly explain the objective and value of their groundbreaking research in terms relevant to government officials, media, future employers and funding organizations. A dissertation or thesis would typically take all day to present, but the competitors are given just 180 seconds to showcase their work.

Australia's University of Queensland developed the first Three Minute Thesis competition in 2008, and the concept has spread to institutions around the world. More than 350 universities in 27 countries now hold competitions.



Dean of NDSU's School of Pharmacy Charles Peterson and pharmaceutical sciences chair Jagdish Singh congratulate students participating in the Three Minute Thesis Competition.

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White Drug #50
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1058 College Drive
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Phone: (701) 627-7624
E-mail: Ramona.Sorenson@ihs.gov

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Phone: (701) 477-8426
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District 4 Officer

Tim Carlson

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John Fugleberg

The Medicine Shoppe Jamestown
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Elizabeth Skoy

NDSU School of Pharmacy
Fargo
Phone: (701) 231-7497
E-Mail: elizabeth.skoy@ndsu.edu

Community Practice Academy President

Dan Churchill

Churchill Pharmacy
1190 W Turnpike Ave, Ste. 2
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Phone: (701) 223-1656
E-Mail: danchurchill@bis.midco.net

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Donna Kisse

Thrifty White Pharmacy,
Fargo
Phone: (701) 269-8747
E-Mail: gdkisse@hotmail.com

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NDPhA
1641 Capitol Way
Bismarck, ND 58501
Phone: (701) 258-4968
Fax: (701) 258-9312
E-Mail: mschwab@nodakpharmacy.net

NDSCS Pharmacy Tech Program

Barbara Lacher

NDSCS Pharmacy Tech Department
800 N 6 St
Wahpeton, ND 58076
Phone: (701) 671-2114
E-Mail: Barbara.Lacher@ndscs.edu

NDPSC President

David Olig

Southpointe Pharmacy
2400 S 32 Ave
Fargo, ND 58103
Phone: (701) 234-9912
E-Mail: davidjolog@gmail.com

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ND State Board of Pharmacy
1906 E Broadway Ave
PO Box 1354
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Phone: (701) 328-9535
E-Mail: mhardy@btinet.net

NDSU School of Pharmacy

Charles Peterson

PO Box 6050 Dept 2650
Fargo, ND 58108-6050
Phone: (701) 231-7609
E-Mail: Charles.Peterson@ndsu.edu

NDPhA Vice President Elect

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Churchill Pharmacy
1190 W Turnpike Ave Ste. 2
Bismarck, ND 58501
Phone: (701) 223-1656

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