

**Department of  
Pharmacy Practice  
School of Pharmacy  
North Dakota State University**

**Summary of Individual Faculty Research/Scholarship  
2018**

# Rebecca Brynjulson, PharmD, BCACP, BCGP



Director, Introductory Pharmacy Practice Experiences  
Assistant Professor of Practice

Sudro Hall 20B; (701) 231-7477; rebecca.brynjulson@ndsu.edu

## Recent Publications

- Strand, M., Miller, D., & **Focken, R.** Assessing public health knowledge and perceptions of pharmacy students before and after completion of didactic and experiential public health coursework. *Currents in Pharmacy Teaching and Learning*. 2016; 8(1). Published online September 29, 2015. doi: <http://dx.doi.org/10.1016/j.cptl.2015.09.013>
- Eukel, H., Frenzel, J., Skoy, E., **Focken, R.**, & Fitz, A. An introductory pharmacy practice experience using simulated patient care activities in a pharmaceutical care laboratory environment. *Currents in Pharmacy Teaching and Learning*. 2014;6(5). doi: <http://dx.doi.org/10.1016/j.cptl.2014.05.007>

## Research Funding:

**Focken, R.**, Naughton, C, Oetken, H, Stromback, C. National Association of Community Drug Stores (NACDS) Foundation Million Hearts Grant, \$1000.00, for the project titled “Public Health Impact of community-based cardiovascular risk screenings conducted by pharmacy students.” January 2013.

## Current Projects /Collaborations

- Frenzel J., Eukel H., & Brynjulson R. Impact of an Active Learning Continuing Education Session focused on Medication Errors and Continuous Quality Improvement.
- Connor S., Beliard R., Brynjulson R., Covvey J., Forrister D., Golchin N., Jounkman L., Kauffman Y., Klein-Fedyshin M., & Park S. Assessment methods in global health courses: a systematic review.
- Petry N., Brynjulson R., & Patnaude L. Integration of Pharmacotherapy Case into Pharmacy Practice Improvement and Project Management Course.

## Research Keywords:

Introductory pharmacy practice experiences (IPPE); Experiential education; Public health; Problem solving; Capstone

# Dan Cernusca, PhD



Assistant Professor of Practice & Instructional Designer

Sudro Hall 118P; (701) 231-7729; Dan.Cernusca@ndsu.edu

## Recent Publications

- Brown, W.I., **Cernusca, D.** & Roehrich, L. (2018). Evaluation of a hybrid training module for community pharmacy staff providing hypertension medication therapy management. *Journal of Pharmacy Practice*, 31(2), 183-189.
- **Cernusca, D.**, Scott, D. M., & Friesner, D. (2017). Turning a problem into a solution: Instructional benefits of using ExamSoft to map multiple-choice responses. *Journal of Higher Education Theory and Practice*, 17(7), 22-34.
- Eukel, H.N., Frenzel, J.E., & **Cernusca, D.** (2017). Educational gaming for pharmacy students-Design and evaluation of a diabetes themed Escape Room. *American Journal of Pharmaceutical Education*, 81(7): Article 6265, 1-5.

## Research Funding:

**Enriching the Undergraduate Experience through Personalized Learning and Mentoring** (4/1/2018 - 03/31/2022)

**Sponsor:** NSF; Total award: \$649,962

**Role:** Co-PI, Provide oversight and guidance on all educational aspects;

**Center for Diagnostic and Therapeutic Strategies in Pancreatic Cancer** (03/01/2016 – 02/28/2021)

**Sponsor:** NIH; Total award: \$9,721,617

**Role:** Assessment of the junior PI mentoring programs.

## Current Projects /Collaborations

**Student Performance and Perceptions in a Case-Based Active Learning Technology-Rich Environment** (08/2016 – 08/2019)

Collaborators: Mark Strand, Donald Miller, Rebecca Brynjulson, NDSU

**Transformative Learning Intervention to Promote Accrual to Clinical Trials** (03/2016- 12/2018)

Collaborators: Geana Mugur, The Health Communication Research Shared Resource (HCRSR) of the KUCC

## Research Keywords:

# Mark Dewey, PharmD, BCGP, FASCP



Associate Professor of Practice

Consultant Pharmacist/ Lake Region Healthcare & Consultant Pharmacist Inc.

Sudro Hall 118Q; (218) 736-8057 (LRH); Mark.Dewey@ndsu.edu

## Recent Publications

- 2017 Horne Dunn, B., Dewey, M., Goedker, A., Friesner, D. "Pharmacist Conducted Patient Education and Discharge Follow-up in a Rural Hospital Setting". Poster at American Society of Health-System Pharmacists Midyear Clinical Meeting: Orlando, FL.
- 2017 Dammer, T., Kelsch, M., Dewey, M. "Evaluation of Fluoroquinolone Use in a Long Term Care Facility". Poster at American Society of Health-System Pharmacists Midyear Clinical Meeting: Orlando, FL.
- Friesner, D, Scott, D, **Dewey, M**, Johnson, T, Kessler, M. "What Types of Nursing Homes are More Likely to Adopt a Pharmacist's Medication Review Recommendations?". The Consultant Pharmacist. 2013;28(8):490-501.
- Scott, D, **Dewey, M**, Johnson, T, Kessler, M., Friesner, D. Preliminary Evaluation of Medication Therapy Management Services in Assisted Living Facilities in rural Minnesota. The Consultant Pharmacist. 2010;25(5):296-309.
- Maack, B., Miller, D., Johnson, T., **Dewey, M**. Economic Impact of a Pharmacy Resident in an Assisted Living Facility-Based Medication Therapy Management Program. Ann Pharmacother. 2008;42(11):1613-20.

## Research Funding:

- 2017-present: Return to Community Initiative Grant for MTM to patients that are returning home after a skilled nursing visit.
- 2007- present: Medication Therapy Management Program Grant through Lake Region Healthcare from Land of the Dancing Sky Agency on Aging
- 2013-2016 Minnesota Department of Human Services Community Service/Community Services Development Grants program for MTM via in-home or Telepharmacy presence at Lake Region Healthcare
- 2011 Lake Region Foundation Grant for Medication Therapy Management Services at the Transition of Care from LRH Foundation

## Current Projects /Collaborations

- "Pharmacist Conducted Medication Regimen Review for Patients Returning to Independent Living Following Skilled Nursing Facility Stay". Jayson Thompson, Pharm.D., Dan Friesner, Ph.D., NDSU
- "Pharmacist Conducted Patient Education at Discharge in a Rural Hospital Setting". Becky Horne Dunn, Pharm.D. & Dan Friesner, Ph.D., NDSU

# Heidi Eukel, PharmD



Associate Professor of Practice

Sudro Hall 118G; (701) 231-7602; heidi.eukel@ndsu.edu

## Recent Publications

- Frenzel J, Skoy E, **Eukel H**. Use of simulations to improve pharmacy students' knowledge, skills, and attitudes about medication errors and patient safety. American Journal of Pharmaceutical Education. 2018; In press.
- **Eukel H**, Frenzel J, Skoy E, Faure M. Longitudinal Evaluation of Student Professionalism throughout the Professional Didactic Curriculum of a Pharmacy Program. Currents in Pharmacy Teaching and Learning. 2018; 10 (3) 325-332.
- **Eukel H**, Frenzel J, Cernusca D.. Educational Gaming for Pharmacy Students – Design and Evaluation of a Diabetes-themed Escape Room. American Journal of Pharmaceutical Education. 2017: 81 (7) Article 6265.
- Skoy E, **Eukel H**, Frenzel J, Werremeyer A, McDaniel B. Use of an Auditory Hallucination Simulation to Increase Student Pharmacist Empathy for Patients with Mental Illness. American Journal of Pharmaceutical Education. 2016; 80 (8) Article 142.

## Research Funding:

Pharmacist Engagement in the Community to Target Opioid Misuse

- FM Area Foundation
- North Dakota Board of Pharmacy

## Current Projects /Collaborations

Escape Room Education Gaming

- Virginia Commonwealth University
- Medical College of Wisconsin School of Pharmacy
- University of Indianapolis

Pharmacist Engagement in the Community to Target Opioid Misuse

## Research Keywords:

Skills laboratory; Simulation; Teaching innovation; Communication

# Jeanne Frenzel, PharmD, PhD, RPh



Associate Professor with Tenure  
Pharmacist

Sudro Hall 118F; (701) 231-8546; Jeanne.Frenzel@ndsu.edu

## Recent Publications

- Eukel, H, Skoy E, **Frenzel J**, Faure M. Longitudinal evaluation of student professionalism throughout the professional didactic curriculum of a pharmacy program. *Currents in Pharmacy Teaching and Learning*. 2018; 10(3).
- **Frenzel J**, Skoy E, Eukel H. Use of simulations to improve pharmacy students' knowledge, skills, and attitudes about medication errors and patient safety. *American Journal of Pharmaceutical Education*. 2017; Publication ahead of print online.
- Eukel, H, **Frenzel J**, Cernusca D. Educational gaming for pharmacy students - design and evaluation of a diabetes themed escape room. *American Journal of Pharmaceutical Education*. 2017; 81(7): Article 6265.
- Sando, K, Skoy E, Bradley C, **Frenzel J**, Kirwin J, Urteaga E. Assessment of SOAP note evaluation tools in colleges and schools of pharmacy. *Currents in Pharmacy Teaching and Learning*. 2017; 9(4): 576-584.

## Research Funding:

- Frenzel J. National Association of Boards of Pharmacy/AACP District 5 Individual Study Grant (PI); 2018. \$3000.00
- Frenzel J. Development Foundation (PI), North Dakota State University; 2016; Fargo, ND. \$1000.00
- Frenzel J. Provost's Travel Grant (PI), North Dakota State University; 2015; Fargo, ND. \$1000.00
- Frenzel J. Instructional Development Grant (PI). North Dakota State University; 2012, Fargo, ND. \$2268.00

## Current Projects /Collaborations

A Diabetes Mellitus Escape Room - Design and Evaluation of an Educational Game (Cernusca, Eukel, Frenzel)  
Use of Auditory Hallucination Simulation to Increase Student Pharmacist Empathy for Patients with Mental Illness (Skoy, Eukel, Frenzel, Werremeyer, McDaniel)  
Training students in the use of naloxone (Skoy, Eukel, Frenzel, Werremeyer)  
Essential Skills based upon AACP Core Entrustable Professional Activities for New Pharmacy Graduates (Frenzel, Debenedetto, Begley, Kirwin, Willson, Kleppinger)

## Research Keywords:

Teaching; Laboratories; Students; Simulation Training



# Michael Kelsch, PharmD, BCPS



Associate Professor of Practice & Vice Chair, Department of Pharmacy Practice

Sudro Hall 118N; (701) 231-6528; Michael.Kelsch@ndsu.edu

## Recent Publications

- Dammer T, **Kelsch MP**, Dewey M. Evaluation of Fluoroquinolone Use in a Long Term Care Facility. Poster Presentation at ASHP Midyear Clinical Meeting; Orlando, FL; December 2017
- Trowbridge C, **Kelsch MP**, Leedahl D, Carson P. Pharmacist-Mediated Antimicrobial Hypersensitivity Reconciliation in an Emergency Department: A Pilot Study. Poster Presentation at ASHP Midyear Clinical Meeting; Orlando, FL; December 2017
- **Kelsch MP**, Sylvester RK. The Effect of Prerequisite Pharmacodynamics Course Timing on Student Performance in Pharmacotherapy Courses. American Journal of Pharmaceutical Education. 2016;80(6):Article 99.
- **Kelsch MP**, Friesner DL. The Health Sciences Reasoning Test in the Pharmacy Admissions Process. American Journal of Pharmaceutical Education. 2014;78(1):Article 9.
- Anderson CL, Albrecht JM, **Kelsch MP**, Hanson PJ. Chronic CA-MRSA in a Basketball Player with Hammer Toe Deformity. International Journal of Athletic Therapy & Training. 2014;19(1):15-19.

## Research Funding:

- Increasing North Dakota's Adults Immunization Rates, July 1, 2017 – June 30, 2018; \$9,993; Co-investigator; North Dakota Department of Health

## Current Projects /Collaborations

Do Tenure and Promotion Reduce Faculty Research Productivity? Evidence from a Midwestern United States School of Pharmacy; Scott DM, **Kelsch MP**, Friesner DL.

## Research Keywords:

Course Timing; Health Sciences Reasoning Test; Poster Presentations; Interrater Reliability; Interviews; Current Events; Peer Teaching; Chronic MRSA Infections; Antimicrobial Hypersensitivity Reconciliation; Fluoroquinolone Use

# Brody Maack, PharmD, CTTS, BCACP



Associate Professor of Practice/Ambulatory Care Clinical Pharmacist

Sudro Hall 118L; (701) 231-9781; brody.maack@ndsu.edu

## Recent Publications

- **Maack B**, Willborn R. Description of Tobacco Use and Cessation among Bhutanese Refugees Participating in a Tobacco Cessation Program. *Ethn Health*. 2017 Jan 21: 1-13. doi: 10.1080/13557858.2017.1280134. [Epub ahead of print].
- Barnacle M, Strand MA, Werremeyer A, **Maack B**, Petry N. Depression Screening in Diabetes Care to Improve Outcomes: Are We Meeting the Challenge?. *Diabetes Educ*. 2016;42(5):646-51.
- Werremeyer A, **Maack B**, Strand M, Barnacle M, Petry N. Disease Control Among Patients with Diabetes and Severe Depressive Symptoms. *J Prim Care Community Health*. 2016 Apr;7(2):130-4.

## Recent Research Funding:

Grants obtained and administered at clinical practice site, Family HealthCare clinic:

- 2017-2018 ND Quits Cessation Expanded Grant: \$67,199
- 2017-2018 PartnerSHIP 4 Health Community Wellness Grant: \$4,000
- 2017-2018 Baby & Me Tobacco Free (ND Department of Health) Grant: \$5,084

## Current Projects /Collaborations

- Comprehensive Diabetes Program research project (at Family HealthCare): In collaboration with Drs. Mark Strand, Amy Werremeyer, Mykell Barnacle, Natasha Petry, Yeong Rhee and several NDSU student research assistants.
- Tobacco Systems Change (within ND chiropractic clinics, potentially ND pharmacies): In collaboration with Drs. Kelly Buettner-Schmidt, Don Miller, Mary Larson, Megan Orr, Becky McDaniel and several NDSU student research assistants.
- Atherosclerotic Cardiovascular Disease (ASCVD) Risk Review Service implementation project: With assistance from NDSU advanced practice pharmacy experience (APPE) students at Family HealthCare.

## Research Keywords:

Diabetes; Depression; Tobacco; Medication therapy management



# Marketa Marvanova, PharmD, PhD, BCGP, BCPP



Chair & Associate Professor, Pharmacy Practice Department

Sudro Hall 118A; (701) 231-8079; marketa.marvanova@ndsu.edu

## Recent Publications

- **Marvanova M**, Henkel PJ. Design, Implementation, and Evaluation of a Workshop in Management of Alzheimer's and Parkinson's Disease for the 3<sup>rd</sup> Year Pharmacy Students. *Currents in Pharmacy Teaching and Learning* 2018; 10(8).
- **Marvanova M**, Gramith K. Role of antidepressants in the treatment of adults with anorexia nervosa. *Ment Health Clin* [Internet]. 2018;8(3):127-37.
- Henkel PJ, **Marvanova M**. Maintaining Vitality: Pharmacists' Continuing Professional Education Decision-Making in the Upper Midwest. Special Issue entitled the Labor Market for Pharmacists. *Pharmacy* 2018; 6(1). pii: E14. doi: 10.3390/pharmacy6010014.
- Henkel PJ, **Marvanova M**. Community Pharmacy-Based Health Services Disparities in Rural Communities. *Journal of Rural Health* 2017. doi: 10.1111/jrh.12279 [Epub ahead of print]
- Sunkaraneni S, Blum D, Ludwig E, Chudasama V, Fiedler-Kelly J, **Marvanova M**, Bainbridge J, Phillips L. Population Pharmacokinetic Evaluation and Missed Dose Simulations for Eslicarbazepine Acetate Monotherapy in Patients With Partial Onset Seizures. *Clinical Pharmacology in Drug Development* 2017. DOI: 10.1002/cpdd.382. [Epub ahead of print]
- **Marvanova M**, Henkel PJ. Community Pharmacists' Knowledge Regarding Donepezil Adverse Effects and Self-Care Recommendations for Insomnia for Persons with AD. *Pharmacy* 2017;28;5(3).

## Research Funding:

- Marvanova, M. (PI), "Targeted Education in Dementia Care for ND Pharmacists", ND Board of Pharmacy, \$3,785. (2011-2018)
- Marvanova, M. (PI), "Pharmacist-Led Community-Based Educational, Screening and Service Initiative for Stroke/TIA Risk Identification, Prevention and Care-Seeking in Eastern North Dakota", Dakota Medical Foundation, \$9,000 (2017-2018)

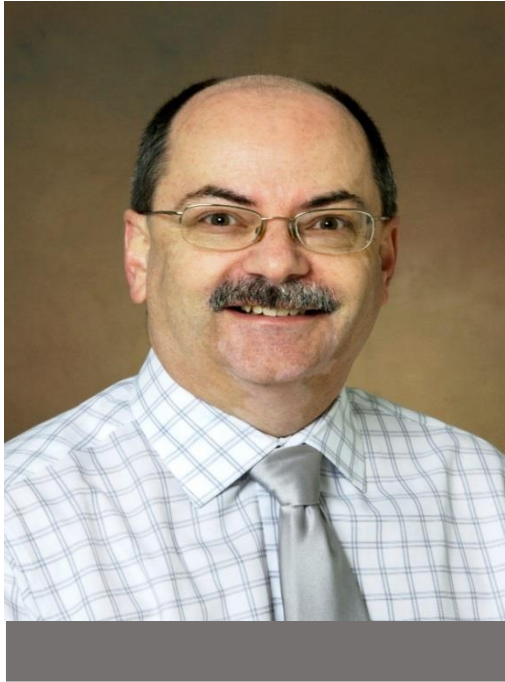
## Current Projects /Collaborations

- Stroke screening and education
- Continuing pharmacy education in geriatrics and neurology
- Assessment of clinical skills and attitudes among pharmacy and medical learners during interprofessional high-fidelity simulation

## Research Keywords:

Epilepsy; Dementia; Parkinson disease; Pharmacy education; Multiple sclerosis; Stroke; Continuing pharmacy education; Interprofessional education

# Donald R. Miller, PharmD, FASHP



Professor of Pharmacy Practice; Associate faculty in Public Health

Sudro Hall 118R; (701) 231-7941; Donald.Miller@ndsu.edu

## Recent Publications

- **Miller DR**, Jangula S. Confirmation bias as a factor in pharmacy student assessment of research study quality. Am J Pharm Ed 2018, in press <https://www.ajpe.org/doi/pdf/10.5688/ajpe6754>
- Buettner-Schmidt K, **Miller DR**, Balasubramanian N. Electronic cigarette refill liquids: child-resistant packaging, nicotine content, and sales to minors. Journal of Pediatric Nursing. 2016;31:373-379.
- Strand M, **Miller DR**, Focken R. Assessing public health knowledge and perceptions of pharmacy students before and after completion of didactic and experiential public health coursework. Currents in Pharmacy Teaching and Learning. 2016;8(1):1-6
- Loueng J, Fitz A, Maack B, **Miller DR**. Relation of two brief health literacy tools to correct prescription understanding, JAPhA. 2015;55:273-277.

## Research Funding:

North Dakota Center for Tobacco Prevention and Control Policy. Chiropractic Practices: Tobacco Systems Change for Effective Cessation. Co-investigator (Kelly Buettner-Schmidt PI), \$281,669 (July 2016-June 2017).

## Current Projects /Collaborations

Chiropractic Practices: Tobacco Systems Change for Effective Cessation. With Kelly Buettner-Schmidt (Nursing), Brody Maack (Pharmacy Practice), Mary Larsen (Human Nutrition & Exercise Science), Megan Orr (Statistics).

## Research Keywords:

Tobacco use cessation; Public health; Health literacy; Pharmacy

# Julia D. Muzzy Williamson, PharmD, CNSC, BCPPS



Assistant Professor of Pharmacy Practice & Pediatric Clinical Pharmacist-Sanford Health Fargo

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## Recent and upcoming CE Presentations

- Cholestasis! Where did all that bile come from? Presentation anticipated at Fall 2018 PPAG Meeting with Dr. M. Petrea Cober. CE and BCPPS recertification. [1 CE] Philadelphia, PA. September 13-6<sup>th</sup>, 2018,
- The Opioid Crisis: Helping Neonates with Prenatal Drug Exposure. CE presentation for pharmacists. North Dakota State University. Presentation part of "From the Schoolhouse" CE programming. Fargo, ND. [1 CE] December 18<sup>th</sup>, 2017.
- Pediatric Enoxaparin Dosing Considerations. CE Presentation for pharmacists and pharmacy technicians. Western New York Society of Health-System Pharmacists. D'Youville College of Pharmacy, Buffalo, NY. [0.75 CE] March 26<sup>th</sup>, 2015.

## Recent Poster Presentations & Publications:

- **Muzzy Williamson J**, Thurlow B, Mohamed MW, and Casas L. The use of subcutaneous insulin pump in the management of transient neonatal diabetes in preterm infant: case report. *Presented at:* American Society of Health-System Pharmacists Midyear Clinical Meeting. Orlando, FL. December 2017. Poster Presentation
- Mohamed M, Haug K, Lessard R, Sandaker L, **Muzzy Williamson JD**, Becker A, and Bellas W. Implementing New Guidelines Supporting Noninvasive Respiratory Management for the Premature Infants In The Delivery Room: A Quality Improvement Project. *Presented at:* Sanford Health's Annual Poster Presentation Fair. Fargo, ND. October 2016. Poster Presentation
- Parker W, Jang S, **Muzzy JD**, Cardone KE. Multidisciplinary views towards pharmacist-delivered MTM services in dialysis facilities. *J Am Pharm Assoc.* 2015;55(4)390-397.
- **Muzzy JD**, Bystrak L, and Stojanovski S. Evaluating the application of a morphine driven protocol for neonatal abstinence syndrome treatment. *Presented at:* Pediatric Pharmacy Advocacy Group.24<sup>th</sup> Annual Meeting. Minneapolis, MN. April 2015. Podium Presentation

## Current Projects

- PPAG Fall 2018 GI/Nutrition Program Planning Chair
- Indomethacin use for prophylaxis in the NICU and GI outcomes. Sanford Health-Fargo
- Evaluation of mixed lipid prescribing practices amongst NICUs across the United States. Survey Project with student

# Cynthia A Naughton, PharmD, BCPS



Senior Associate Dean, College of Health Professions  
Associate Professor, Pharmacy Practice

Dean's Office, Sudro 123D; (701) 231-8487; [cynthia.naughton@ndsu.edu](mailto:cynthia.naughton@ndsu.edu)

## Recent Publications

- **Naughton CA.** Patient-Centered Communication. Pharmacy 2018, 6(1), 18; doi:10.3390/pharmacy6010018.
- **Naughton CA,** Schweiger TA, Angelo LB, Bonner CL, Dhing CW, Farley JF. Expanding dress code requirements in the Doctor of Pharmacy program. Am J Pharm Educ. 2016;80(5) Article 74.
- **Naughton CA,** Friesner D. Correlation of P3 PCOA scores with future NAPLEX scores. Currents in Pharmacy Teaching and Learning. 2014;6:877-883.

## Research Funding:

- \$1500 Advance FORWARD Leadership Development Grant, ACE North Dakota Regional Leadership Forum, (2013) (PI)
- \$1000 "Public Health Impact of Community-based Cardiovascular Risk Screenings" (Co-PI) National Association of Chain Drug Stores Foundation Million Hearts 2013 Heart to Heart Community Health Fair Grant
- \$4500 NDSU, Faculty Senate Committee, Instructional Development Grant "Interprofessional Education" (2013) (Co-PI)

## Current Projects /Collaborations

- Delivering pharmacy education in a study abroad experience (with David Scott, Dan Friesner, Kelly Haugen)
- Impact of interprofessional education on achievement of core competencies for interprofessional collaborative practice.

## Research Keywords:

Interprofessional education, pharmacy education and assessment, curricular design, leadership, patient-centered care and communication



# Natasha Petry, PharmD, BCACP



Assistant Professor of Practice, Pharmacy Practice Department, NDSU  
Imagenetics Pharmacist, Sanford Health

Sudro Hall 20D; (701) 231-6554; [Natasha.Petry@ndsu.edu](mailto:Natasha.Petry@ndsu.edu)

## Recent Publications

- Empey PE, Stevenson JM, Tuteja S, Weitzel KW, Angiolillo DJ, Beitelshes AL, Coons JC, Duarte JD, Franchi F, Jeng LJB, Johnson JA, Kreutz RP, Limdi NA, Maloney KA, Owusu Obeng A, Peterson JF, Petry N, Pratt VM, Rollini F, Scott SA, Skaar TC, Vesely MR, Stouffer GA, Wilke RA, Cavallari LH, Lee CR. Multi-site investigation of strategies for the implementation of CYP2C19 genotype-guided antiplatelet therapy. Clin Pharmacol Ther. 2017 Dec 26. doi: 10.1002/cpt.1006.
- Petry N and Chavour S. HLA Genotyping for Allopurinol: Lessons Learned. S D Med. 2017 Oct;70(10):462-464.
- Petry N and Hines L. Point-Counterpoint: Genotyping for SSRIs. S D Med. 2017 Jun;70(6):246-248.
- LH Cavallari, AL Beitelshes, KV Blake, LG Dressler, JD Duarte, A Elsey, JN Eichmeyer, PE Empey, JP Franciosi, JK Hicks, AM Holmes, L Jeng, CR Lee, JJ Lima, NA Limdi, J Modlin5, AO Obeng, N Petry, VM. Pratt, TC Skaar, S Tuteja, D Voora, M Wagner, KW Weitzel, RA Wilke, JF Peterson and JA Johnson. The IGNITE Pharmacogenetics Working Group: An Opportunity for Building Evidence with Pharmacogenetic Implementation in a Real-World Setting. Clinical and Translational Science. Clin Transl Sci (2017) 10, 143-146.

## Research Funding:

Researcher: Integrated/Individualized/Intelligent Rx (PI: JC Denny); Implementing Genomics in Practice (IGNITE Network)  
National Institutes of Health 1U01HG007253 subcontract (2013-2018)

## Current Projects /Collaborations

- Precision Medicine - Integrated Individualized Intelligent Prescribing (I3P): Collaborators at Sanford Health
- Implementing Genomics in Practice (IGNITE Network): Collaborators at Sanford Health, Vanderbilt University, University of Florida
- Assessment of Cultural Competency Active Learning Strategies for Pharmacy Students: Collaborators across the country

## Research Keywords:

Pharmacogenomics; Precision medicine; Primary health care; Cultural Competency; Active Learning

# Lisa Richter, PharmD, BCPS, BCCCP



Director of Experiential Outreach and Assessment  
Assistant Professor of Practice, Department of Pharmacy Practice

Sudro Hall 20A; (701) 231-5178; lisa.richter.1@ndsu.edu

## Recent Publications

- Grindeland CJ, Mauriello CT, Leedahl DD, **Richter LM**, Meyer AC. Association between updated guideline-based palivizumab administration and RSV hospitalizations: A retrospective cohort study. *Pediatr Infect Dis J*. 2016 July; 35(7): 728-32.
- Jones JM, **Richter LM**, Alonto A, Leedahl DD. Desensitization to ceftaroline in a patient with multiple medication hypersensitivity reactions. *Am J Health-Syst Pharm*. 2015; 17:198-202.
- Hermesen ED, Shull SS, **Richter LM**, Fang Q, Rupp ME. Failure of a pharmacist-initiated antimicrobial step-down protocol to impact physician prescribing behavior or patient outcomes: A quasi-experimental, cross-over study. *J Hosp Adm*. 2013 April: 2(4).

## Research Funding:

NA

## Current Projects /Collaborations

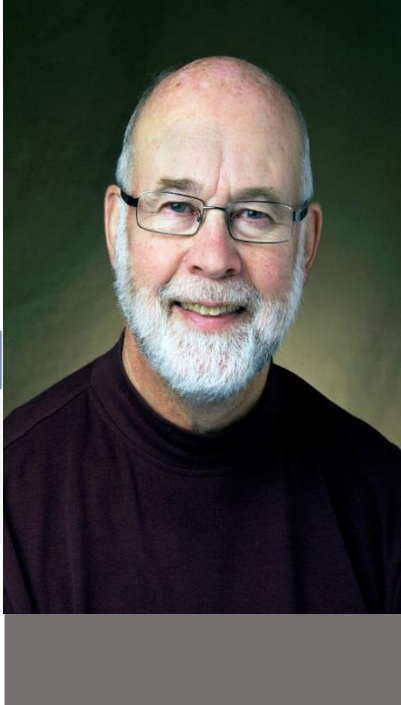
- Evaluation of the impact of an automatic therapeutic formulary substitution of chronic obstructive pulmonary disease (COPD) inhalers through an approved therapeutic substitution policy (with Sanford collaborators Maren McGurran, PharmD, Nathan Leedahl, PharmD, BCPS and David Leedahl, PharmD, BCPS-AQ ID, BCCCP)

## Research Keywords:

Palivizumab guidelines, Desensitization, Antimicrobial step-down



# David M. Scott, BPharm, MPH, PhD



Professor, Department of Pharmacy Practice and Public Health

Sudro Hall 118K; (701) 231-5867; david.scott@ndsu.edu

## Recent Publications

- **Scott DM:** Ambulatory Care. In: McCarthy RL, Schafermeyer KW, Plake KS (editors). Chapter 9, Introduction to Health Care Delivery: A Primer for Pharmacists, 6th edition, Jones and Bartlett Publishers, Sudbury, MA, 2017.
- **Scott DM,** Friesner D, Undem T, Anderson G, Sem K, Peterson CD. Sustainability of Community Telepharmacy in North Dakota. JAPhA. 13-May-2017 DOI information: 10.1016/j.japh.2017.02.005.
- **Scott DM.** Health Care Delivery System in the United States. (Canadian Journal of Hospital Pharmacy (CJHP), 2016;69(4):306-315.
- **Scott DM,** Friesner DL, Rathke A., Doherty-Johnson S. Medication Error Reporting In Rural Critical Access Hospitals In The North Dakota Telepharmacy Project. J Health-Systems Pharm. 2014;7(1):58-67.

## Research Funding:

Mark Strand, Principal Investigator, David Scott. Pharmacist's Delivery of Public Health Services Survey. District V NABP/AACP \$3,000 grant.

## Current Projects /Collaborations

- Study Abroad Ireland, London and Vienna assessment
- Productivity study of promoted faculty
- EPA assessment of pharmacists (and preceptors)
- Sustainability of community telepharmacy in North Dakota
- ExamSoft assessment of health care delivery systems course

## Research Keywords:

Patient-centered care; Pharmaceutical care; Pharmacy education; Public health; Rural health

# Elizabeth Skoy, PharmD, RPh



Associate Professor of Practice

Sudro Hall 118E, (701) 231-5669, elizabeth.skoy@ndsu.edu

## Recent Publications

- Werremeyer A, **Skoy E**, Aalgaard Kelly G. Medication of Psychotropic Medications through Photovoice. Qualitative Health Research. 2017 21(13).
- Sando K, **Skoy E**, Bradley C, Frenzel J, Kirwin J, Urteaga E. Assessment of SOAP Notes in Colleges and Schools of Pharmacy. Currents of Pharmacy Teaching and Learning. 2017: 9(4).
- **Skoy E**, Frenzel J, Eukel H, Werremeyer A, McDaniel B. Use of an Auditory Hallucination Simulation to Increase Student Pharmacist Empathy. American Journal of Pharmaceutical Education. 2016; 80(8): Article 142.

## Research Funding:

- Skoy, E, Kelsch M, Carson P, Hall K. Increasing North Dakota Adult Immunization Rates. North Dakota Department of Health. July 2017. \$9993.
- Skoy E, Werremeyer A, Strand M, Kirkwood M. My Reality: Humanizing Mental Illness through Stories and Images. North Dakota State University Impact Grant. September 2016. \$12,000

## Current Projects /Collaborations

- Snap The Stigma campaign to increase awareness and decrease stigma of mental illness among college students (Werremeyer)
- Increasing adult immunization rates through pharmacist education (Kelsch, Carson, Hall)
- Decreasing opioid misuse and accidental overdose through pharmacist education (Strand, Eukel, Werremeyer)
- Increasing pharmacy student knowledge and attitudes towards preventing opioid misuse and abuse and prescribing of naloxone(Eukel, Frenzel, Werrmeyer)

## Research Keywords:

Innovate community pharmacy practice; simulation; educational reserach; pharmacy skills; Photovoice

# Amber Slevin, PharmD, BCACP



Assistant Professor of Practice/Ambulatory Care Clinical Pharmacist

Sudro Hall 118M; 701-231-6685

## Recent Publications

- **Altstadt A**, Holznecht C, Rahman S, Rein L, Szabo A, Saeian K. *“Non-adherence Diminishes Real-world SVR12 in an Inter-disciplinary Care Clinic.”* Gastroenterology. April 2016; 150(4): S1039.

## Research Funding:

NA

## Current Projects /Collaborations

TBD

## Research Keywords:

antiviral drug, direct-acting antiviral, Hepatitis C virus, medication adherence, real-world outcomes

# Mark A. Strand, PhD, CPH



Professor, Pharmacy Practice

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## Recent Publications

- Yin ZN, Perry J, Duan XQ, He MZ, Johnson R, Feng YL, and **Strand MA**. Cultural adaptation of an evidence-based lifestyle intervention for diabetes prevention for Chinese women at risk for diabetes: Results of a randomized trial. *International Health* (2018). In press. <https://doi.org/10.1093/inthealth/ihx072>
- **Strand MA**, Davidson K, Schulze N. Linking pharmacists to the delivery of public health services. *Journal of the American Pharmacists Association*, 2017;57:742-746.
- Eukel H, Burck S, and **Strand MA**. Early returns are promising for pharmacists screening patients receiving opioid prescriptions. *NoDak Pharmacy*, 2018; 31(1):22-23.

## Research Funding

- Pharmacist Engagement in the Community to Target Opioid Abuse Prevention, FM Area Foundation, \$10,000, 2017-18.
- Maternal and Child Health Project Evaluation, North Dakota Department of Health, \$62,510, 2017-2021.
- Community Pharmacy Opioid Misuse Risk Prevention project, North Dakota Department of Human Services, \$116,000, Alex Stern Family Foundation, \$15,000.
- Comprehensive Diabetes and Depression Program (CDDP) Intervention Model, Bush Foundation, \$10,000, 2016-18.

## Current Projects /Collaborations

- Pharmacist Engagement in the Community to Target Opioid Abuse Prevention, FM Area Foundation, North Dakota Department of Human Services, North Dakota Board of Pharmacy
- Maternal and Child Health Project Evaluation, North Dakota Department of Health, Local Public Health Departments in North Dakota
- Chronic Disease Prevention, Family HealthCare

## Research Keywords:

Epidemiology; Chronic disease; Diabetes; Public health; Global health; Opioid misuse prevention

# Teri Undem, BPharm



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## Recent Publications

Scott D, Strand MA, **Undem T**, Anderson, G, Clarens, A, and Liu XY. Assessment of Pharmacists' Delivery of Public Health Services in Rural and Urban Areas in Iowa and North Dakota. *Pharmacy Practice*. 2016;14(4):836-846.

Strand MA, Scott, D, **Undem T**, Anderson G, Clarens A, Liu X. Pharmacist Contributions to the Ten Essential Services of Public Health in Three National Association of Boards of Pharmacy Regions. *Journal of the American Pharmacists Association*. 2017; 57:395-401.

Scott D, Friesner DL, **Undem T**, Anderson G, Sem K, Peterson C. Perceived sustainability of Community Telepharmacy in North Dakota. *Journal of the American Pharmacists Association*. 2017; 57:362-368.

Strand M, Scott D, **Undem T**, Anderson G, Clarens A, Liu X. Comparing Contributions to the Ten Essential Services of Public Health in Three NABP Pharmacy Regions. *Journal of the American Pharmacists Association*. 2017; 57 (3)

Strand M, **Undem T**, PharmD Candidates, Scott D. A Comparison of Pharmacist Delivery of Public Health Services in Manitoba, North Dakota and Iowa. <https://www.researchgate.net/publication/322317701>

## Research Funding:

2014-2015 District V Competitive Grant \$3000 "Assessing Pharmacists Contribution to Public Health". (Research Team member)

## Current Projects /Collaborations

UND Rural Health IPE Initiative

# Joni Viets, PharmD, BCPS



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## Recent Publications

NA

## Research Funding:

NA

## Current Projects /Collaborations

TBD

## Research Keywords:



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## Recent Publications

- Nelson E, **Werremeyer A**, Skoy E, Aalgaard Kelly G. Self-stigma of antidepressant users through secondary analysis of PhotoVoice data. *The Mental Health Clinician*. In press.
- **Werremeyer A**, Skoy E, Aalgaard Kelly G. Medication Experience of Psychotropic Medications through Photovoice. *Qualitative Health Research*. Published online March 1, 2017. DOI: 10.1177/10497323176932.
- **Werremeyer A**, Aalgaard-Kelly G, Skoy E. Living with My Medication: Using Photovoice to explore patients' experiences with mental health medication. *The Mental Health Clinician*. 2016;6(3):142-153.
- **Werremeyer A**, Strand M, Maack B, Barnacle M, Petry N. Disease Control Among Patients with Diabetes and Severe Depressive Symptoms. *J Prim Care Community Health*. 2016;7(2):130-34.

## Research Funding:

- Strand M, Eukel H, Skoy E, Werremeyer A, Steig J. Pharmacist Engagement in the Community To Target Opioid Abuse Prevention. ND Department of Health. May 2018.
- Werremeyer A. The Pharmacist's Role in an ECHO Project to Increase Access to Medication Assisted Therapy for Opioid Use Disorder. ND Center for Rural Health. December 2017.
- Skoy E, Werremeyer A, Strand M, Kirkwood M. My Reality: Humanizing Mental Illness through Stories and Images. North Dakota State University Impact Grant. September 2016.

## Current Projects /Collaborations

- Designing the Medication Experience with Psychotropics (MEP) tool to improve patient's subjective experience of taking psychotropics.
- Pharmacists role in safe opioid use and overdose prevention
- Efforts to reduce stigma related to mental illness and substance-use disorder

## Research Keywords:

Pharmacist, Opioid, medication, Stigma, Patient, Community, Care, Patient, experience