



Donald Miller, Pharm.D.
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Pharmacy Practice Dept.
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Research Interests

- Pedagogy and critical thinking
- Rheumatology drugs
- Public health
- Health literacy

Table 4: Learner characteristics associated with a change in score

Characteristic	Change in score, points (95% CI)	p value
Baseline score*	-0.66 (-0.74 to -0.58)	< 0.001
Sequence of Berlin Questionnaire†		
Set A first	-0.43 (-0.85 to -0.02)	0.04
Set B first	Reference	
Occupation†		0.001
Direct patient care provider	Reference	
Academic (epidemiology, public health)	-0.34 (-1.21 to 0.53)	
Administrator	-2.88 (-4.4 to -1.39)	
Medical publishing or pharmaceutical industry personnel	1.04 (-0.07 to 2.14)	
Student or not reported	-0.28 (-0.89 to 0.33)	
Previous experience as a tutor†		0.008
Yes	2.2 (0.58 to 3.84)	
No	Reference	
Self-rated knowledge†		0.020
None	0.08 (-0.57 to 0.73)	
Little	Reference	
Average	0.56 (0.04 to 1.09)	
Advanced	1.09 (-0.04 to 2.14)	
Not reported	-1.61 (-3.14 to -0.08)	

CI = confidence interval.
 * Change in score per unit.
 † Change in score compared with the reference category.
Note: Regression analysis was conducted on change in knowledge score. A positive value indicates an increase in knowledge compared with the reference category and a negative value indicates a decrease in knowledge compared with the reference category. For example, assuming that all other parameters stayed the same, learners with previous experience as a tutor improved their knowledge by 2.2 more points than learners who did not have this experience.

Kunz R, et al. Determinants of knowledge gain in evidence-based medicine short courses: an international assessment. *Open Medicine* 2010 <http://www.openmedicine.ca/article/view/299/291>

Working with department faculty and McNair student scholar on evaluating brief assessments of health literacy in the pharmacy.

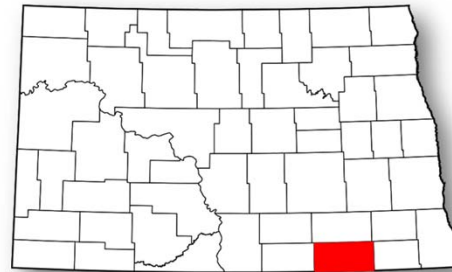


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Research Expertise

- Medication Therapy Management, Disease Management/Prevention
- Telehealth/Telepharmacy
- Asthma



Funding Sources:

- Dean's Grant
- North Dakota Pharmacy Services Corporation

Collaborations/Partners:

North Dakota Pharmacist Association
About The Patient
Association of Asthma Educators



Amy Drummond, Pharm.D.

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PharmD, B.S. P.Sci., Chemistry Minor

Research Expertise

- Pediatric and neonatal pharmacy
- Immunizations

Research Projects

Perceptions of Pharmacist-Administered Immunizations to Pediatric Patients

Collaboration

- Sanford Children's Hospital
- Red River Valley Immunization Coalition
- North Dakota Immunization Advisory Board



**Mark Dewey, Pharm.D., CGP,
FASCP**

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Research Expertise

- Geriatrics
- Long Term Care
- Medication Therapy Management
- Assisted Living
- Interdisciplinary Teams
- Transitions in Care



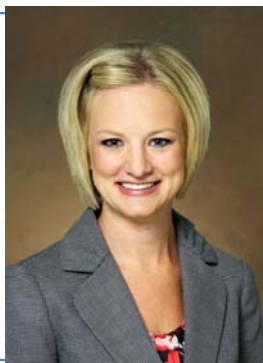
Table 1. Recommendations Made by the Pharmacist

Intervention	Recommendations, n (% of total)
Indication and appropriateness for all medications	2(1.6)
Appropriateness of doses	30(24)
Drug-drug interactions	2(1.6)
Drug contraindications or drug allergies	2(1.6)
Appropriateness of length of therapy	4(3.2)
Missing drug therapy	31(24.8)
Therapeutic duplications	3(2.4)
Appropriateness of laboratory monitoring	15(12)
Adverse drug reactions or compliance issues	20(16)
Cost issues	15(12)
Miscellaneous	1(0.8)

Maack B, Miller DR, Dewey M. **Economic Impact of a Pharmacy Resident in an Assisted Living Facility-Based Medication Therapy Management Program.** Ann Pharmacother. 2008 Nov;42(11):1613-20.

Collaborations and Funding Sources

- Lake Region Healthcare Fergus Falls, MN
- Consultant Pharmacist Inc.
- Land of the Dancing Sky Area Agency on Aging
- Minnesota Department of Health
- University of Minnesota



Heidi Eukel, PharmD

Assistant Professor

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Research Expertise

Innovations in teaching and learning

- ✓ Contemporary pharmacy practice, medication therapy management, simulation, self-care medications, patient consultation

Current research in progress:

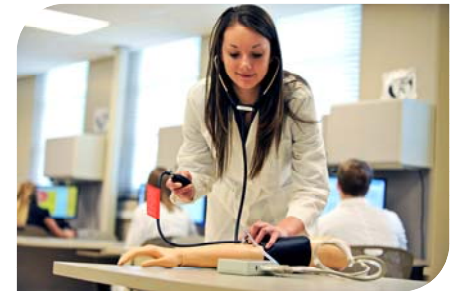
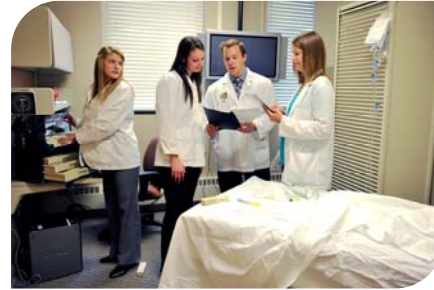
- ✓ Comparison of student and pharmacist identification of potential drug therapy problems prior to medication therapy management encounters
- ✓ Essential pharmacy skills for doctor of pharmacy graduates (*national collaboration*)
- ✓ Simulation in the pharmacy classroom
- ✓ The use of a faculty-developed acronym to train professional pharmacy students to identify potential drug therapy problems



Alicia Fitz, PharmD, RPh
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Pharmacy Practice
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RESEARCH:

- Health Literacy
- Teaching Innovation
- Ambulatory Care



Funding Sources:

- College-level grants,
foundation money

Collaborative Partners:

- Family Healthcare Center,
Brody Maack, Don Miller, Jane
Loueng (McNair Scholar)



Rebecca Focken, PharmD, CGP
Director, Introductory Pharmacy Practice Experiences; Assistant Professor

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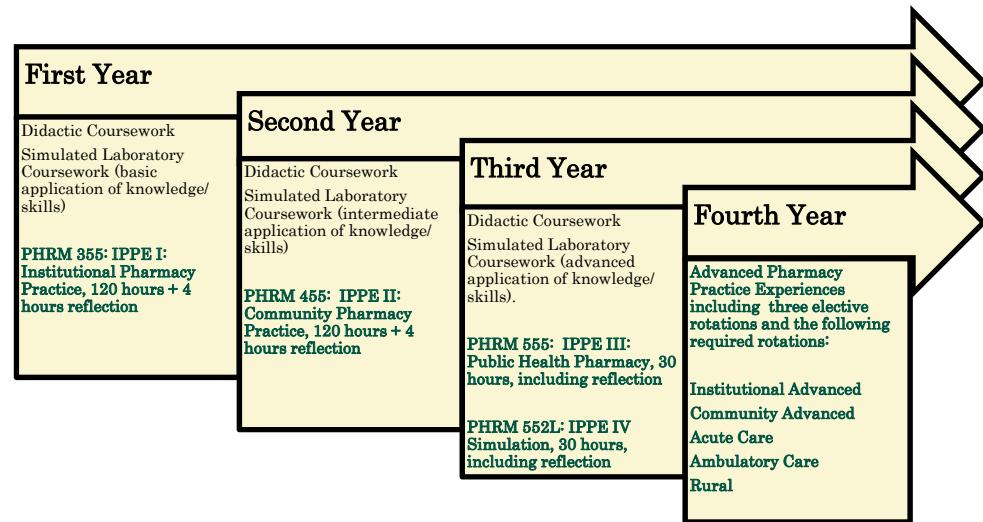
Education/Training: ASHP Accredited PGY1 Pharmacy Practice Residency, U of MN 2005; Doctor of Pharmacy (PharmD), NDSU 2004; B.S. Pharmaceutical Sciences NDSU 2002; B.S. Biology BSU 2000.

Licensure/Certifications: Registered Pharmacist in MN and ND, Board Certified Geriatric Pharmacist (CGP)

Research Expertise

- Experiential Education, Workplace Learning, Pharmacy Student Education, Patient Education, Pharmaceutical Care, Ambulatory Care Pharmacy Practice.

As outlined in the image below, in the four year professional pharmacy program curriculum, experiential education (identified in green text) in the form of introductory and advanced experiences occurs throughout the curriculum. My research interests include how pharmacy students learn in the classroom, how learning translates from the classroom to the practice (work) environment, how students learn best in practice (work) environments, and the impact student pharmacists can have in driving practice initiatives related to the provision of pharmaceutical care services.

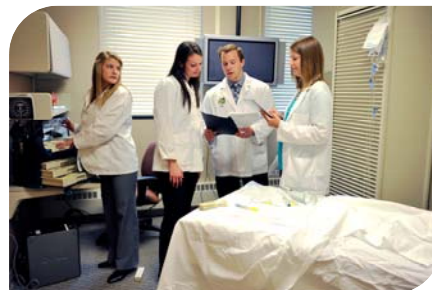


Funding Sources/ Grants Received:

- 2013 Million Hearts/NACDS Foundation "Heart to Heart Community Health Fairs" Grant
- 2008 NDSU Development Foundation Grant



Thrifty White Concept Pharmacy



Jeanne Frenzel, PharmD, RPh

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Bachelor of Science Microbiology, NDSU 2000
Bachelor of Science Pharmaceutical Sciences, NDSU 2001
Doctor of Pharmacy, NDSU 2003
Doctor of Philosophy Adult Education, NDSU – ABD

Research Expertise

- Assessment of pharmacy student learning
- Assessment of learning activities for pharmacy students
- Validation of grading rubrics

Funding Sources

- North Dakota State University Development Foundation - Instructional Development Grants
- Pharmacy Practice research seed grants
- Medication donations for instructional use – In kind

Collaborations

NDSU Colleagues

- Heidi Eukel, PharmD
- Elizabeth Skoy, PharmD
- Alicia Fitz, PharmD

United States Colleagues

- Shana Castillo, PharmD, MBA, Creighton University
- Krista Donohoe, PharmD, Virginia Commonwealth University
- Mandy Jones, PharmD, PA-C, University of Kentucky
- Jennifer Kirwin, PharmD, Northeastern University
- Ashlee McMillan, PharmD, West Virginia University
- Michael W Neville, PharmD, University of Georgia
- Jeffrey Tingen, PharmD, MBA, University of Michigan
- Elizabeth M Urteaga, PharmD, University of the Incarnate Word



Dan Friesner, Ph.D.

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Research Expertise

- Health Economics
- Applied Management Science/Operations Research in Health Care
- Applied Econometrics
- Community Economic Development



Representative Publications:

“Medication Error Reporting in Rural Critical Access Hospitals in the North Dakota Telepharmacy Project,” *American Journal of Health-System Pharmacy*, 2013, forthcoming (with David Scott, Ann Rathke and Shelley Doherty-Johnsen).

“Inferring the Incidence of Industry Inefficiency from DEA Estimates,” *European Journal of Operational Research*, 2013, Vol. 224, No. 2, pp. 414-424 (with Robert Rosenman and Ron Mittelhammer).

“Characteristics of Information Content in Business Sentiment Surveys,” *American Journal of Business*, 2013, Vol. 28, No. 1, pp. 19-37 (with Tim Schibik and Mohammed Khayum).

“Differentiation of Prostate Cancer Cells using Flexible Fluorescent Polymers,” *Analytical Chemistry*, 2012, Vol. 84, No. 1, pp. 17-20 (with Michael Scott, Rinku Dutta, Manas Haldar and Sanku Mallik).

“Measuring Shared Efficiency between Hospital Cost Centers,” *Medical Care Research and Review*, 2011, Vol. 68, No. 1, Supplement, pp. 55-74 (with Sean Murphy, Robert Rosenman and Matthew McPherson).

“Patients’ Perceptions and Treatment Effectiveness,” *Applied Economics*, 2011, Vol. 43, No. 24, pp. 3275-3288 (with Sean Murphy, Robert Rosenman and Jon Yoder).

Current Funding:

“Patient-Centered Care: The Impact of the Community Pharmacist-Provided Medication Management Services on Patient Health Outcomes in Medical Homes or Accountable Care Organizations – The North Dakota MediQHome Project” National Association of Chain Drug Stores Foundation. 2012 (with David Scott, Thomas Christensen, David Lessard, Patty Kumbera and Justin Heiser), Amount: \$606,034 (over 2 years). Role: Co-PI.

Other Partnerships:

I am currently collaborating with the Intracranial Hypertension Research Foundation on an unfunded project to measure the economic costs associated with idiopathic intracranial hypertension.



Andrea Huseth-Zosel:

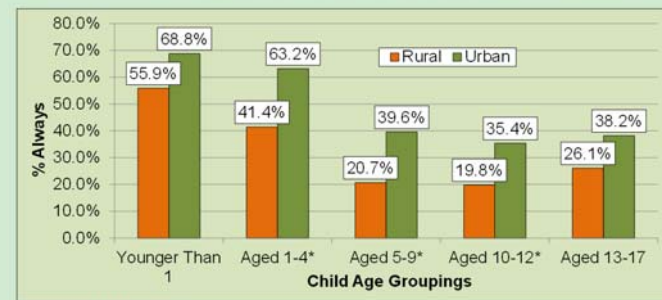
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Andrea.huseth-zosel@ndsu.edu
 MS – Sociology (2000)
 PhD Candidate in Gerontology (anticipated 2015)

Research Expertise

- Injury prevention
- Anticipatory guidance provision in a health care setting
- Child passenger safety
- Older drivers
- Would like to expand into gender, aging issues, education and public health

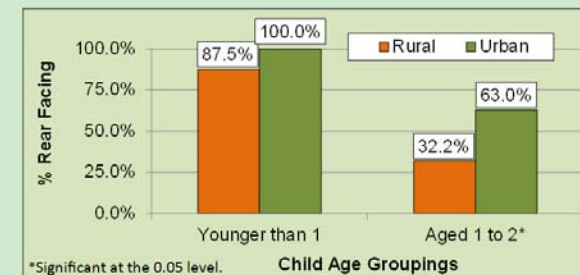


Figure 1. HCPs Who Always Provide Advice on Child Passenger Safety by Rurality



*Significant at the 0.05 level.

Figure 5. Rear Facing by Child Age and Rurality



*Significant at the 0.05 level.

Table 3. Acknowledgement of Medication Use to Alleviate Menopause Symptoms by Post-menopausal Women

Variables	%	Odds Ratio (95% CI)
Overall (n=267)	12.4	
Employment Status*		
Not Working* (n=213)	9.9	1.00
Working (n=75)	21.3	2.48 (1.22-5.06)*
Occupation		
White Collar* (n=95)	15.8	1.00
Blue Collar (n=160)	10.0	0.59 (0.28-1.26)
Not Working (n=12)	16.6	1.07 (0.21-5.36)
Education		
High School or Less* (n=215)	11.6	1.00
Some College or More (n=72)	16.6	1.52 (0.72-3.20)

[§] Referent
 *p<0.05

Current funding sources:
 Dept of Transportation
 ND appropriated funds (MPH program)



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Research Expertise

- Pharmacy Education
- Infectious Diseases

Current Events Presentations by Students in a Pharmacotherapy Course

Michael Kelsch, Pharm.D., BCPS, Amy Werremeyer, Pharm.D.
 Acknowledgment to Don Frazier, Ph.D., for editorial support

Introduction
 During the Infectious Disease Pharmacotherapy course, students are required to complete the process of researching, analyzing, and conducting a literature presentation on a current topic in infectious disease.

Objectives
 1. Increase student awareness of current events within an area of PharmD specialty interest.
 2. Improve student presentation skills.
 3. Implement a formal method of active learning in a large classroom setting.

Procedure

1. Assign student to student pair (group).
2. Students assigned topic, assigned to instructor. Student's chosen topic assigned.
3. Topics assigned by instructor.
4. Pair read and discuss each assigned article or journal in preparation for class and feedback.
5. Second draft submitted to instructor.
6. Student presentations.
7. Assessment Survey.

Survey Results

Question	Active Presentations	Peer Presentations	If Have to Give a Paper for Grad in Year of completion
Are you currently presenting at a conference?	100%	100%	100%
Would you like to present at a conference?	100%	100%	100%
Do you have any questions or comments about the course?	100%	100%	100%
Do you have any questions or comments about the course?	100%	100%	100%

Exam and Quiz Results

Exam/Quiz	Current Events Questions	Non-Current Events Questions	Score for the exam/quiz (out of 100)	Score for the exam/quiz (out of 100)
Exam 1	100%	100%	100%	100%
Exam 2	100%	100%	100%	100%
Exam 3	100%	100%	100%	100%

Conclusions
 Current Events Presentations significantly increased student confidence and awareness of current events in infectious disease. The students also significantly increased student understanding of the process to prepare a poster presentation in a group. Students commented that they enjoyed the active learning method, and realized that there is an abundance of current research that requires the pharmacy profession. The study suggests that the active learning approach is effective for teaching emerging material that may otherwise be omitted from traditional classroom instruction.

Research collaborators include other pharmacy practice faculty at NDSU.



Brody Maack, Pharm.D.

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- Clinical Pharmacist, Ambulatory Care
 - Family HealthCare, Fargo ND

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Research Expertise

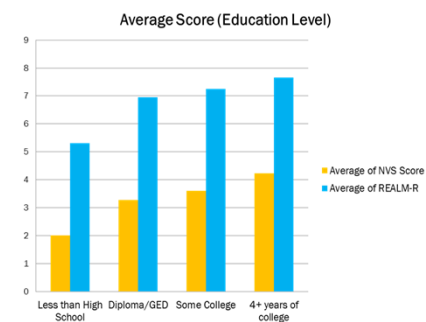
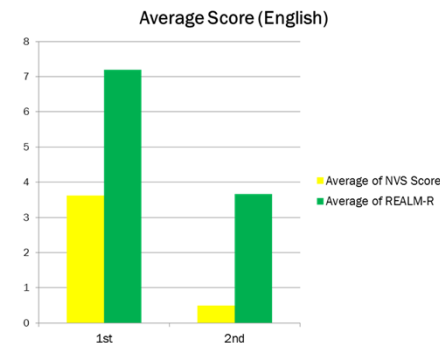
- **Ambulatory Care Clinical Pharmacy**
 - Medication Therapy Management
 - Patient-Centered Medical Home
 - Cardiovascular Disease Treatment and Pharmacotherapy
 - Health Literacy and underserved populations

Evaluation of Two Brief Literacy Prediction Tools for Predicting Understanding of a Prescription Label

	NVS Score	REALM-R Score	Syringe	Supply
NVS Score	1.00000	0.37718 (p<.0001)	0.04960 (0.5467)	0.40224 (p<.0001)
REALM-R	0.37718 (p<.0001)	1.00000	0.07498 (0.3618)	0.28394 (0.0004)
Syringe	0.04960 (0.5467)	0.07498 (0.3618)	1.00000	0.02115 (0.7973)
Supply	0.40224 (p<.0001)	0.28394 (0.0004)	0.02115 (0.7973)	1.00000

Label	#1	#2	#3	#4
Correct	93.55%	74.42%	88.57%	92.66%

Education Level	# of Patients	Mean NVS	Mean REALM-R	Supply correct	Syringe correct
Less than High School	16	2	5.31	0%	68.75%
Diploma/G ED	40	3.28	6.95	40.0%	92.5%
Some College	59	3.61	7.25	44.07%	94.92%
4+ years of college	35	4.23	7.66	62.86%	74.29%



- Collaborations:
 - Trio-McNair Scholars program
 - Dr. Maack is co-mentor of a McNair scholar who serves as a research investigator
 - Family HealthCare
 - Clinic site where literacy surveys/study participants are hosted
- Funding Sources (grants hosted by Family HealthCare):
 - Fargo-Cass Public Health: Grant for Homeless Health Tobacco Cessation
 - ND Department of Health: Grant for Dental Tobacco Cessation program



Kenton Omgig, Pharm.D.

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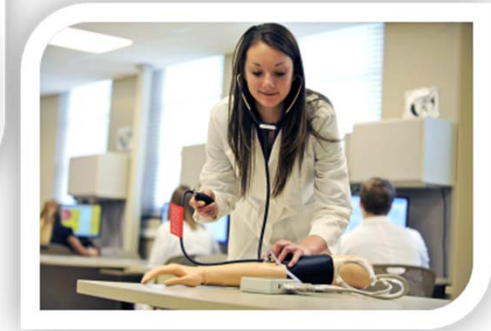
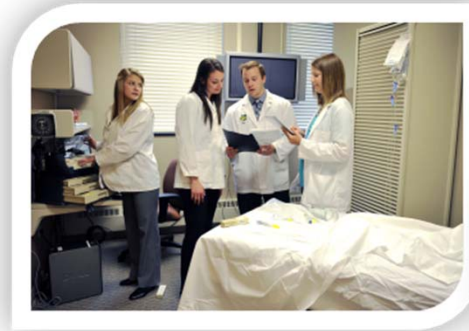
Pharm.D. NDSU 1993

Previous experience in collaborative projects with PGY-1 Pharmacy Practice Residents
(most recent) "An Evaluation of Medication Reconciliation with Assessment of the Pharmacist's Role Upon Patient Admission to a Tertiary Care Hospital"

Current project: proposing to use exam questions from the most recent pathophysiology course as a tool to assess the related knowledge of pharmacists practicing in a variety of settings. The goal is to determine if they know the material at the depth that we attempt to impart to students and whether our assumptions with respect to course rigor match the expectations of those same practitioners. The same tool will also be utilized to assess knowledge retention of pathophysiology course content as students progress through the pharmacy curriculum.



Elizabeth Skoy, PharmD
Pharmacy Practice
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Research Expertise

- Pharmacy Education
- PhotoVoice methodology
- Medication Therapy

Funding Sources

National Association of Boards of Pharmacy
District V grant

Collaborations

Gina Kelly, PhD, NDSU Sociology
Amy Werremeyer, PharmD, NDSU Pharmacy Practice



Tara Schmitz, Pharm.D., R.Ph
Assistant Professor / Department of
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- **Self Care Consultation
via Telepharmacy**
- **Specialty Asthma Care**



In collaboration with North
Dakota telepharmacy
project, evaluating remote
management of asthma



Mark A. Strand, PhD

Department of Pharmacy
Practice and Master of Public
Health Program.

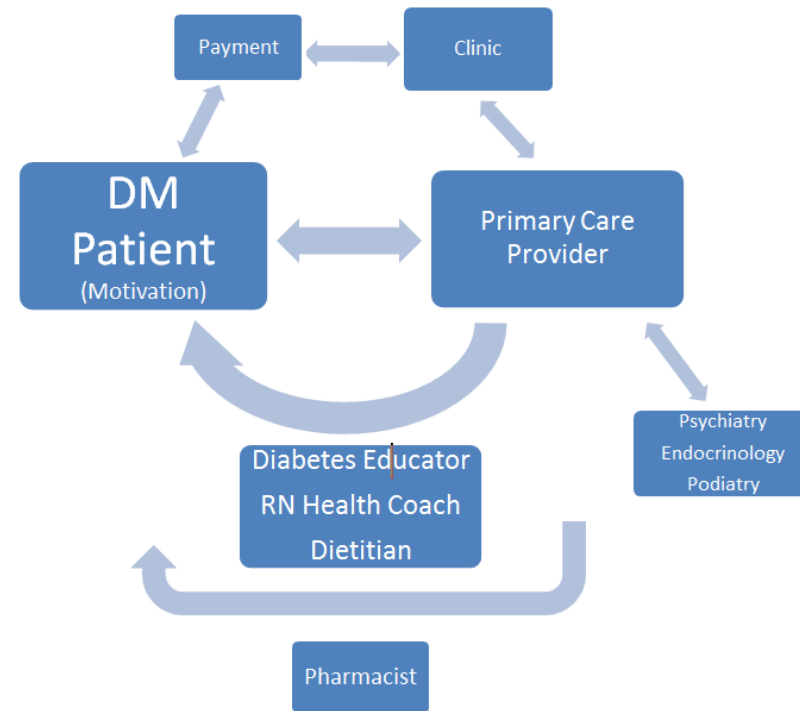
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Research Expertise:

- Epidemiology of Chronic Disease
- Chronic Disease Management
- Global Health
- Health Behaviors

NDSU NORTH DAKOTA
STATE UNIVERSITY



Diabetes Management Model

Funding:

- Pathway to Health: A Lifestyle Intervention to Prevent Diabetes (International Diabetes Federation funded, 2012-14).
- Prevalence of Metabolic Syndrome Among Middle-age Urban Chinese (longitudinal study 2008 to 2016).

Collaborations:

- University of Texas at San Antonio
- Chinese Health Partners, P.R. China



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Research Expertise

- Public health and drug policy
- Telepharmacy
- Pharmaceutical care and MTM
- Educational assessment

BIBLIOGRAPHY (N=95 publications) – partial listing

Friesner DL, Scott DM, Rathke AM, Peterson CD, Anderson HA: Do Remote Community Telepharmacies Have Higher Medication Error Rates than Traditional Community Pharmacies: Evidence from the North Dakota Telepharmacy Project. JAPhA 2011, 51(4);48-58.

Naughton CA, Friesner D, Scott D, Miller D, Albano C. Designing a Master of Public Health Degree within a Department of Pharmacy Practice. AJPE, 2010, 74, Article 186.

Petersen CD, Scott DM, Rathke A, Killingsworth P, Hill G. Establishing a Central Order Entry Site for Delivering Telepharmacy Services to Remote Rural Hospitals. J Phar Tech. 2010;26:179-86.

Scott DM, Friesner DL, Dewey M, Johnson T, Kessler M: Preliminary Evaluation of Medication Therapy Management Services in Assisted Living Facilities in Rural Minnesota. The Consultant Pharmacist. 2010;25(5):96-309.

Friesner DL, Miller DR, Scott DM, Naughton CA, Albano CB. Rural Public Health Education as a Pharmacist-led Team Endeavor. JAPhA, 2010;50:207-213.

Scott DM: Assessment of Pharmacists' Perception of Patient Care Competence and Need for Training in Rural and Urban Areas of North Dakota. J Rural Health, 2010; 26:91-97.

GRANT SUPPORT– FUNDED (N=40, for a total of \$5,460,473 including 19 as Principal Investigator (\$1,102,685), 5 as Co-Principal Investigator (\$2,195,615) and 16 as Co-investigator (\$2,162,173) - partial listing

Scott DM (PI), Friesner D (Co-PI). The North Dakota MediQHome Project. NACDS Foundation, \$606,034, 2 year grant. December 15, 2012- December 31, 2014.

Brown W (PI), Friesner D (Co-PI), Scott DM (Co-PI), Rathke A. North Dakota Telepharmacy Project - Breathe ND: Bringing Specialty Asthma Care to Rural North Dakota. \$25,000, 2-year grant, Pharmacy Practice Seed Grant, September 1, 2011 – August 31, 2013, funded.

Peterson CD (PI), Scott DM (Co-PI), Rathke A, Anderson H. North Dakota Telepharmacy Project. \$813,535 (Year 5) 5-year grant, Department of Health and Human Resources, Health Resources and Services Administration, Office of TeleHealth, September 1, 2008 – August 31, 2011.



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Research Expertise

- Applied - clinical research in discipline of pharmacy practice, setting of oncology and palliative care
- Basic – genotyping patients receiving temozolomide for predictive toxicity profile

No pertinent illustrations – pertinent citations:

- Sylvester RK, Steen P, Tate JM, Mehta M, Petrich R, Berg A, Kolesar J. Temozolomide-induced severe myelosuppression: analysis of clinically-associated polymorphisms in two patients. *Anti-Cancer Drugs*. 2011;22:104-10.
- Sylvester RK, Schauer C, Thomas J, Steen P, Weisenberger A. Evaluation of methadone absorption after topical administration to hospice patients. *Journal of Pain and Symptom Management*. 2011;41:828-35.
- Sylvester RK, Roberg J, Roden W, Smithson K. Pharmacy Student Assessment of a Hospice-based Advanced Pharmacy Experience. *American Journal of Pharmaceutical Education* 2009; 73(3) Article 44.

Funding: internal – departmental small grants

Collaborators: Sanford medical oncologists, Hospice of the Red River Valley, Jill Kolesar, PharmD UW Madison



Donald Warne, MD, MPH
Director, MPH Program

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Research Expertise

- Health Disparities
- Public Health
- American Indian Health
- Health Policy Research
- Diabetes, Cancer

Current Projects

1. Sanford One Care—funded by CMS, partnership with Sanford Health
2. Community Transformation Grant—funded by CDC, partnership with ND Dept. of Health
3. Native American Research Center for Health—funded by NIH and IHS, partnership with Great Plains Tribal Chairmen’s Health Board and 5 Tribal Colleges in ND

Pending Projects (applications submitted)

1. Robert Wood Johnson Foundation – Investigator Award in Health Policy Research, Proposed textbook on American Indian Health Policy
2. Verizon Foundation—Community Health Worker Training Grant, Partnership with National Rural Health Association
3. CDC—Tribal Public Health Capacity Building and Quality Improvement, partnership with Three Affiliated Tribes in ND



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Research Expertise

- Photovoice (qualitative, participant action-oriented, focus group research) with mental health patients
- Photovoice research with pharmacy students (pedagogical research)
- Impact of Patient medication-education groups in mental health

Mental health participant-elicited photo



Mental health participant quote using SHOWED interview technique

S: “No caption needed because it is self explanatory that meds are expensive.” H: “Well when I was laid off, [I wasn’t filling my meds]... I have [never] not filled my prescriptions before.” O: “I am not putting any money into the family so I did not want to take anything out.” W: [no response] E: “I think that people know meds are already expensive.” D: “I have changed to generic drugs to help with costs.”

Collaborator: Gina Aalgaard-Kelly, PhD (NDSU Sociology Department)

Collaborators: Lisa Goldstone, MS, PharmD, BCPP, University of Arizona; Shannon Saldana, PharmD, BCPP, Primary Children’s Hospital, Salt Lake City, UT.

Funding: 2013 District V NABP/AACP grant