Precision Health & Nursing: From Genetics to Improving Health Outcomes

Friday, April 28, 2017

McNamara Alumni Center
ABOUT NURSING RESEARCH DAY

DESCRIPTION AND PURPOSE
University of Minnesota School of Nursing faculty and students, with engaged community partners, will showcase research studies and evidence-based clinical innovations discussing implications for practice, policy and future research. The purpose of University of Minnesota School of Nursing Research Day is to advance nursing science and scholarship as the foundation for practice.

PROGRAM OBJECTIVES
After attending, participants will be able to:

• Describe nursing and interdisciplinary research and evidence-linked initiatives in the School of Nursing and the health care community.
• Investigate ways these innovations can be used to optimize health outcomes in clinical practice, health policy and research.

ACCREDITATION
In support of improving patient care, the University of Minnesota, Interprofessional Continuing Education is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE) and the American Nurses Credentialing Center (ANCC) to provide continuing education for the health care team.

This activity is awarded up to 4.5 ANCC contact hours.

Other Health Professionals: It is the responsibility of each participant to determine if the program meets the criteria for re-licensure or re-certification for their discipline. Each participant will receive an Evidence of Participation document upon completion of accreditation requirements.

FEATURED SPEAKER
Cindy Anderson, PhD, CRNP, ANEF, FNAP, FAHA, FAAN, will present on Epigenetics and Heritable Risk for Preeclampsia and Cardiovascular Disease. Anderson is an associate professor and associate dean for Academic Affairs and Educational Innovation in the College of Nursing at The Ohio State University. Her research is focused on the study of hypertension in pregnancy and the influence that the maternal pregnant environment has on future development of hypertension in offspring. Recent investigation is targeted towards gene-environment interactions that increase heritable risk for preeclampsia, including the study of disrupted gene function due to changes in DNA methylation. From her early findings in animal studies through her clinical studies in pregnant women, her goals are to improve health outcomes of women and their children through early screening and identification of individuals at risk for preeclampsia across the lifespan.

BARBARA O’GRADY LECTURSHIP
Dr. Anderson’s keynote is supported by funds in honor of Barbara O’Grady, an influential public health leader and supporter of the University of Minnesota School of Nursing and the Katharine J. Densford International Center for Nursing Leadership.
PROGRAM SCHEDULE

MORNING SCHEDULE

8:00 A.M.
Registration and check-in (Minnesota Room)
Morning Session Posters available for viewing at 8 a.m. (Memorial Hall)

8:45 A.M.
Welcome and opening remarks
Melissa Saftner, PhD, APRN, CNM
Research Day Co-Chair and Clinical Associate Professor, University of Minnesota School of Nursing
Connie White Delaney, PhD, RN, FAAN, FACMI
Professor and Dean, University of Minnesota School of Nursing

9:00 A.M.
Keynote presentation followed by Q & A
Epigenetics and Heritable Risk for Preeclampsia and Cardiovascular Disease
Cindy Anderson, PhD, CRNP, ANEF, FNAP, FAHA, FAAN
Live webcast of the keynote at http://z.umn.edu/rdkeynote

10:15 A.M.
Morning poster session
(Memorial Hall, see pages 6-9 for details)
School of Nursing faculty & graduate student posters
Community partner posters

10:45 A.M.
Morning oral presentation breakout sessions
(See pages 10-11 for details)
School of Nursing faculty & graduate student posters
Community partner posters

LUNCH AND NOON TIME EVENTS

11:45 A.M.
Lunch on your own
The Thomas H. Swain Room in the McNamara Center (near D’Amico and Sons Cafe) is available for gathering over the lunch hour.

NOON-1:00 P.M.
PhD information session (Heritage Gallery)

AFTERNOON SCHEDULE

Afternoon posters available for viewing at 12:30 p.m.
(Memorial Hall)

1:15 P.M.
Afternoon oral presentation breakout sessions
(See pages 12 to 13 for details)
School of Nursing faculty & graduate student posters
Community partner posters
BSN student posters

2:15 P.M.
Afternoon poster session
(Memorial Hall, see pages 14-16 for details)
School of Nursing faculty & graduate student posters
Community partner posters

3:00 P.M.
People’s Choice Awards and closing remarks
Rozina Bhimani, PhD, DNP, APRN, FNP-BC, CNE
Research Day Co-Chair and Assistant Professor, University of Minnesota School of Nursing

3:15 P.M.
Adjourn
For those seeking ANCC contact hours please turn in your Verification of Participation Worksheet in the Minnesota Room
MORNING POSTERS

SCHOOL OF NURSING FACULTY & GRADUATE STUDENT POSTERS

1. Family Inclusivity: Do We Include All Families In Research?
   Anne Chevalier McKechnie, PhD, RN*; Barbara Beacham, PhD, RN*

2. Discover Improved-Outcome Evidence for Personalized Treatment from Electronic Health Records
   Chih-Lin Chi, PhD, MBA*; Peter Tonellato, PhD, Harvard Medical School

3. Suicidality: The School Context as A Protective Factor for Ethnic Minority Adolescents
   Eunice M. Areba, PhD, RN; Jiwoo Lee, PhD, RN; Myriam Forster, PhD, MPH; Barbara Mcmorris, PhD*; Marla Eisenberg, ScD MPH

4. Use of a Nursing Mothers’ Room in a University Academic Health Center and Breastfeeding Outcomes
   Laura Duckett, PhD, MPH, RN*

5. Recipient Health Status Predicts Liver Transplantation Survival
   Lisiane Pruinelli, PhD, RN*; Karen A. Monsen, PhD, RN, FAAN*; Cynthia R. Gross, PhD*; David M. Radosевич, PhD, RN; Gyorgy J. Simon, PhD; Bonnie L. Westra, PhD, RN, FAAN, FACMI*

6. Embracing Gerontechnology: Assessment and Improvement of Pre-licensure Nurse Education Curriculum
   Raney Linck, MSN, RN*

7. The Types of Foods Served at Family Dinner, Food Healthfulness and Associations with Child and Parent Dietary Quality and Weight Outcomes
   Jayne Fulkerson, PhD*; Sarah Friend, MPH, RD; Melissa Horning, PhD, RN, PHN*; Dianne Neumark-Sztainer, PhD, MPH, RD

8. Usability Evaluation of Four Top-Rated Apps for Type 2 Diabetes Self-Management
   Helen NC Fu, PhD Student, MSN, FNP-BC; Rubina F. Rizvi, MBBS, MS; Terrence J. Adam, RPh, MD, PhD; Jean F. Wyman, PhD, APRN, GNP-BC, FGSFA, FAAN*

9. Improving Lives Through Research: Recruitment and Retention
   Laura Kirk, PhD, RN*

10. Toward Standardization: A Time Motion Study Comparing Activities in Three Unit Types using Omaha System Terms
    Karen A. Monsen, PhD, RN, FAAN*; E. Schenck, PhD, MHI, RN, Washington State University; R. Schleyer, MSN, RN-BC, Providence Health & Services; S. Fincham, DNP, RN; C. Jones, PhD; K. Daratha, PhD, Washington State University

11. Analysis of the Omaha System Prototype Icons for Health Literacy: A Global Survey
    Yu Jin Kang, PhD student, MPH, BSN, RN

12. Evaluating PHN Interventions and Impact on Nutrition Outcomes
    Melissa Horning, PhD, RN, PHN*; Shay Lell, BSN student; Diane R. Thorson, MS, RN, PHN, Otter Tail County Public Health; Karen A. Monsen, PhD, RN, FAAN*

13. Can Aggression be Prevented? Inpatient Psychiatric Nurses’ Experiences
    Niki Gjere, PhD student, MS, MA, APRN, PMHCNS-BC; Cynthia Peden-McAlpine, PhD, ACNS, BC*; Jean Wyman, PhD, APRN, GNP-BC, FGSFA, FAAN

14. Lavender: A Scentsible Alternative for Sleep and Anxiety
    Elena Geiger-Simpson, DNP student, BA, RN, PHN; Barbara Peterson, PhD, APRN, PMHCNS*

15. Using Venous Occlusion Plethysmography to Measure Clinical Improvements in Peripheral Artery Disease Following Participation in a Supervised Exercise Program
    Rebecca Brown, PhD student, MN, Med, RN; Dereck Salisbury, PhD*; Laura Kirk, PhD, RN*; Diane Treat-Jacobson, PhD, RN, FAAN*

16. A Qualitative Exploration of Barriers to Physical Activity Experienced by Older Adults with Peripheral Artery Disease and Diabetes
    Mary Whipple, PhD student, BSN, RN; Diane Treat-Jacobson, PhD, RN, FAAN*

Primary presenter names are bolded and * refers to University of Minnesota School of Nursing faculty member
17. Associations between Multiple Dimensions of School Engagement and Risky Health Behaviors among Vulnerable Middle School Students
Barbara J. McMorris, PhD*; Myriam Forster, PhD; Amy Gower, PhD; Jennifer Oliphant, EdD; Kari Gloppen, PhD; Renee Sieving, PhD, RN*; Barbara J. McMorris, PhD*

18. Practical Insights from a Pilot of a New Model to Prevent Heart Disease and Stroke among African American Men
Ruth Lindquist, PhD, RN, FAHA, FAAN*; Erica Schorr, PhD, RN*; Suma Konety, MD; Niloufar Hadidi, PhD, APRN, ACNS-BC*; Diane Treat-Jacobson, PhD, RN*; Robin Kelley, DrPH; Sohye Lee, PhD student, BSN

19. Implementing a Labor Lounge for Women in Early Labor
Brianna Barth, DNP student, BSN, RN; Ann Forster Page, MSN, CNM; Melissa A. Saftner, PhD, CNM*

20. Documentation of Patient Strengths in Electronic Health Records
Grace Gao, PhD student, DNP, RN-BC; Madeleine Kerr, PhD, RN*; Ruth Lindquist, PhD, RN, FAAN*; Karen Monsen, PhD, RN, FAAN*

Annie Liljegren, DNP student, BAN, RN; Ann Forster Page, MS, CNM; Becky Gams, MS, APRN, CNP; Melissa Saftner, PhD, CNM*

22. Supplemental Oxygen Quality Improvement Process
Kari Erickson, DNP student, MN, RN

COMMUNITY PARTNER POSTERS

23. QUEST for Health: Nurse Led Foundational Health Education
Kerry Appleton, MAN, RN, CCRN, Children's Minnesota

24. Public Health Interventions: School Nurse Practice Stories
Linda J.W. Anderson, DNP, MPH, RN, PHN; Marjorie A Schaffer, PhD, RN, PHN, Bethel University; Cynthia Hiltz, MS, RN, PHN, LSN, Anoka Hennepin School District; Stacie O’Leary, MA, RN, PHN, LSN, Independent School District 197; Ruth Ellen Luehr, DNP, RN, PHN, LSN, FBNASN, Minnesota Department of Education; Erika L. Yoney, BSN, RN, PHN, LSN, Minnesota Department of Health

25. Secure Messaging: Staff Commitment to Timely Response Assures Quality Care for Veterans
Lara Carson, BAN, RN; Bradley Foley, MSN, RN, Minneapolis VA HCS

26. Dedicated Education Unit: An Academia and Clinical Practice Partnership Aimed at Improving Outcomes
Jennifer McGuire, MAN, RN-BC, Mayo Clinic; Cyndy Jones, DNP, RN, Winona State University; Sherry Chesak, PhD, RN, Mayo Clinic

27. Early Detection of Severe Sepsis Using a RN-Initiated Screening Protocol
Shamsah Rehmatullah, MS, RN, APRN, CNS; Craig Weinert, MD, MPH, MHealth

28. Efficacy of Peristeen® Transanal Irrigation System for Pediatric Neurogenic Bowel
Tiffany Gordon, MSN, RN; David Vandersteen, MD; John Belew, PhD, RN, Gillette Children's Specialty Healthcare

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MORNING PRESENTATIONS

MORNING ORAL PRESENTATION BREAKOUT SESSIONS

A. Informatics and Person-centered Health
   Memorial Hall
   A Novel Clustering Methodology to Address Liver Transplant Population Heterogeneity
   Lisiane Pruinelli, PhD, RN*; Bonnie L. Westra, PhD, RN, FAAN, FACMI*; Karen A. Monsen, PhD, RN, FAAN*; Gyorgy J. Simon, PhD
   Extract Rules of Improved-Outcome Personalized Warfarin Treatment Protocol based on Clinical and Genetic Characteristics
   Chih-Lin Chi, PhD, MBA*; Kourosh Ravvaz, PhD, MD, MPH, Aurora Health Care; Peter Tonellato, PhD, Harvard Medical School and University of Wisconsin
   Feasibility of Using an Ontology-based Structured Text Mining Approach with CaringBridge Social Media Narratives
   Karen Monsen, PhD, RN, FAAN*; Sasank Maganti, B-Tech, MS student; Mary Jo Kreitzer, PhD, RN, FAAN*

B. Improving Care for Children with Acute and Chronic Health Issues
   Johnson Room
   Improving Body Function and Minimizing Activity Limitations in Pediatric Cancer Survivors: The Lasting Impact of the Stoplight Program
   Casey Hooke, PhD, APRN, PCNS, CPON*; Lynn Tanner, MPT, PT, Children’s Minnesota
   What if Everyone is Not Okay? Using a Symptom Assessment Scale to Impact Pediatric Oncology Care
   Kirsten Moe, BAN, RN, Children’s Minnesota
   Pediatric Critical Care Nurses’ Practices Related to Sedation and Analgesia: A Pilot Study
   Alyssa Sakhitab-Kerestes, MN, RN; Jaclyn Hall, MN, RN; Sandra Hagstrom, PhD, RN, APRN, CNP; Mary Fran Tracy, PhD, RN, APRN, CNS, FAAN*, University of Minnesota Health

C. Improving Cardiovascular Health among Older Adults
   Ski-U-Mah Room
   Upper Body Arm Ergometry in Senior Living: Feasibility and Acceptability
   Laura Kirk, PhD, RN*
   Functional Capacity, Body Composition, and Lipids Changes 15 weeks Post-Cardiac Rehabilitation: Analysis from the PAACE Study
   Erica Schorr, PhD, RN*; Rebecca Brown, MEd, MN, RN, PHN; Hilton Dahl, BA, Now Micro; Alicia Sarkinen, BSN; Ioanna Gryllaki; Molly Ellett; Katrina Cuffey, BSN
   Use of Ankle-Foot Orthoses to Treat Calf Claudication in Peripheral Artery Disease: The AFO for PAD Trial I
   Ryan J. Mays, PhD, MPH*; Ashley A. Mays, MD, FACC, North Memorial Medical Center; Ryan L. Mizner, PT, PhD, University of Montana

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AFTERNOON PRESENTATIONS

ORAL PRESENTATION BREAKOUT SESSIONS

D. Innovations in Nursing Education

Memorial Hall

Facing the 22nd Century: A Genetics Interface of Computer Science and Caring Science
Patrick Dean, EdD, RN, OSTJ*

Integrative Nursing Guideline
Penny D. Kessler, DNP, RN*; Karen A. Monsen, PhD, RN, FAAN*

Knowledge Surveys in Nursing Education: Pre-licensure Nursing Students’ Perceptions of their Knowledge and Clinical Skill Abilities
Mary DeGrote Goering, PhD, RN-BC*

E. Preventing Disabilities and Symptom Management in Adults

Ski-U-Mah Room

Defeating Urinary Incontinence with Exercise Training (DUET): Results of a Pilot Randomized Controlled Trial to Improve Urinary Incontinence in Frail Older Women
Kristine Talley, PhD, APRN, GNP-BC*; Becky Olson-Kellogg, DPT; Ulf Bronas, PhD, College of Nursing, The University of Illinois at Chicago; Teresa McCarthy, MD; Jean F. Wyman, PhD, APRN, GNP-BC, FAAN*

How Adults with Spina Bifida and Neurogenic Bowel Dysfunction Perceive and Define Success with Their Bowel Management Program
Jenna Katorski, MSN, FNP; Karen Levandoski, MS, RN; John Belew, PhD, RN; Rhonda Cady, PhD, RN, Gillette Children’s Specialty Healthcare

John Rozman, APRN, NP; Sue Sendelbach, PhD, APRN, CNA, Abbott Northwestern Hospital; Rob Kreiger, PhD, Courage/Kenny/Allina

F. Sleep Studies: Improving Sleep Quality

Johnson Room

Associations Between Screen Time, Sleep, and Emotional Health Among Young Adolescents Attending Three Twin Cities Middle Schools
Barbara J. McMorris, PhD*; Myriam Forster, PhD; Kari Gloppen, PhD; Amy Gower, PhD

Nursing Students’ Use of Fitbits to Encourage Healthy Activity & Sleep: A Pilot Study
Carolyn Porta, PhD, MPH, RN, SANE-A*; Barbara Peterson, PhD, RN*; Katherine Lust, PhD; Marla Eisenberg, DrPH

Sleep Disturbance and the Immunological Acute Phase Response in Postoperative Hospitalized Adults
Jean D. Humphries, PhD, RN, Sigma Theta Tau International-Zeta Chapter

Quality and Quantity of Patient Sleep in the Hospital: Perceptions and Measures
Teresa Jahn, MSN, APRN, CCNS, CCRN; Roberta Basol, MA, RN, NE-BC; Karen Chalich, BSN, RN, CNN; Patricia Dumonceaux, MSN, RN, CIC; Amy Hilleren-Listerud, DNP, APRN, ACNS-BC, CBN, PCCN; Sarah Latour, MSN, RN; Jessica Miller, MSN, APRN, CNS, RNC-OB; Katie Notch; Ariel Reischl, BSN, RN, St. Cloud Hospital

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AFTERNOON POSTERS

SCHOOL OF NURSING FACULTY & GRADUATE STUDENT POSTERS

29. Gasping for Breath: Improving Palliative Nursing Care for Patients with Dyspnea
   Amberly Hess, DNP student, BSN, RN; Niloufar Niakosari Hadidi, PhD, APRN, CNS-BC, FAHA*; Christina Wiekamp, APRN, CNS, ACHPN, HealthEast; Amy Klopp, APRN, CNS, ACHPN, Fairview Ridges

30. My Integrative Therapy Care Plan: A Quality Improvement Project to Standardize Delivery of Integrative Therapies on a Pediatric Blood and Marrow Transplant Unit
   Kirsten Dougherty, DNP student, MN, RN

31. Improving Quality of Care Through Prenatal Contraceptive Education and Follow-up
   Megan King, DNP student, BSN, RN; Melissa Saftner, PhD, CNM*; John Eads, MN, CNM, Fairview Health System

32. Improving Interdisciplinary Communication and Teamwork Through TeamSTEPPS: A Quality Improvement Project
   Razaq Adedayo, DNP student, MN, RN; Judith Pechecek, DNP, RN, CENP*; Shelley Solberg, NHA, Camden Care Center

33. Improving Timely Response to Inpatient Strokes: A DNP Quality Improvement Project
   Roberta L. Huna Wagner, DNP student, BSN, RN; Niloufar Niakosari Hadidi, PhD, APRN, CNS-BC, FAHA*; Carol Droegemueller, MS, APRN, CNS, Regions Hospital

34. Development of a 16-Week Text Message and Support Group Intervention for African American Women’s Weight Management
   Sohye Lee, PhD student, BSN

35. Use of Novel Intervention Management Methods with Large Nursing Datasets to Model Public Health Nurse Home Visiting Intervention Approaches and Outcomes
   Young Shin Park, PhD student, MPH, RN

36. Experiencing a Smooth Transition: From Nursing Student to New Hire
   Barbara Champlin, PhD, RN*

COMMUNITY PARTNER POSTERS

37. Shhh…Making Connections. Protecting Sleep in the Hospitalized Preterm Infant
   Jeannie Prestegaard, BSN, RN, Children’s Minnesota

38. Ambulatory IV Prostacyclin Infusion Process Improvement
   Molly Howard, MSN, APRN, ACNS-BC; Lynn Ballard, ASN, RN-BC; Anne Schullo-Feulner, PharmD; Park Nicollet Methodist Hospital

BSN STUDENT POSTERS

39. Reducing Hookah Smoking among College Students
   Krista Zarling, BSN student

40. Validating a Measure to Assess Executive Function and Facilitate Nursing Care in Patients With Alzheimer’s Disease
   Libby Kriz, BSN student

41. The Effectiveness of Elementary School-Based Obesity Prevention Programs
   Meghann Jorstad, BSN student

42. The Effect of Care-recipient Behavioral and Psychological Symptoms of Dementia and Mood on Caregiver Stress
   Wendy Martin, BSN student

43. Adolescents with Type 1 Diabetes: Examining the Parent Relationship, Communication, Autonomy and Impact on the Family
   Isatou Cham, BSN student; Barbara L. Beacham, PhD, RN*

44. The Experience of Disease-Related Stigma Among Ebola Survivors in a Western Uganda Community
   Jeanette Spanjers, BSN student

45. Identifying Predictors to Exercise Adherence in the DUET Exercise Program
   Alix Poliszuk, BSN student

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AFTERNOON POSTERS

46. Is a Multifactorial Risk Reduction Lifestyle Intervention Program Stressful to Participants? 
Holly Hoenig, BSN student; Sohye Lee, PhD student, RN; Robin Kelley, PhD; Ruth Lindquist, PhD, RN, FAAN*

47. The Role of Expanded Access to Overdose Education and Naloxone Distribution in the Reduction of Opioid Related Deaths 
Darcy Schaller, BSN student

48. The Influence of Adolescents’ Risk Perceptions on their Choice to Initiate Substance Use 
Ellen Wiggins Zimmermann, BSN student; Barbara J. McMorris, PhD*

49. Changes in Body Composition Using an Activity-Tracking Device for 15 Weeks Post-Cardiovascular Rehabilitation 
Molly Ellett, BSN student; Erica Schorr, PhD, RN*; Rebecca Brown, MEd, MN, RN; Hilton Dahl, BS, Now Micro

50. Visualization Device Use for Intravenous Access in Pediatric Patients: A Systematic Review 
Anne Berens, BSN student

51. Affirmation and Solidarity: An Integrative Review of the Efficacy of School-Based Strategies at Reducing the Suicide Risk of Lesbian, Gay, Bisexual, and Transgender Youth 
Trevor Barker, BA, BSN student

52. Comparing In-Person and Remote Healthcare Interpretation Services for Accuracy and Satisfaction 
Xiaohui Yu, BSN student

PLANNING COMMITTEE AND ADVISERS

SCHOOL OF NURSING PROGRAM PLANNING COMMITTEE
Ann Garwick, PhD, RN, LMFT, LP, FAAN*, Professor and Senior Executive Associate Dean for Research
Melissa A. Saftner, PhD, APRN, CNM*, Research Day Co-Chair and Clinical Associate Professor
Rozina Bhimani, PhD, DNP, APRN, FNP-BC, CNE*, Research Day Co-Chair and Assistant Professor

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Sherry Chesak, PhD, RN; Mayo Clinic
Lee Diedrick, MA, RN, C-NIC; Children’s Minnesota
Brad Foley, MSN, RN*; Minneapolis VA Health Care System
Molly Howard, APRN, CNS; Park Nicollet Methodist Hospital
Katheren Koehn, MA, RN; Minnesota Organization of Registered Nurses (MNORN)
Sonja Meiers, PhD, RN; Winona State University – Department of Nursing
Sue Sendelbach, PhD, RN, CCNS; Abbott Northwestern Hospital
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*University of Minnesota School of Nursing faculty member
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