FOCUS: The Key to Research at the University of Iowa College of Nursing

College of Nursing 125th Celebration

September 22, 2023
First Major Research Activity: 1956-1957


Impact: Tested the common assumption that increasing nursing staff and conducting staff education improve patient welfare.
Pioneers of nursing research (from left): Dr. Myrtle Aydelotte, Dr. Virginia Henderson, Dr. Harriet Werley, Jessie M. Scott, Dr. Faye G. Abdellah.
RESEARCH HIGHLIGHTS

1956

Myrtle Aydelotte

First Major Externally Funded Research Activity
RESEARCH HIGHLIGHTS

1956

Evelyn Barritt (left)
Ada Jacox

First Major Externally Funded Research Activity

Creation of PhD Program
RESEARCH HIGHLIGHTS

1956

Laura Hart (left), Pat Donahue, Geraldene Felton

First Major Externally Funded Research Activity

Creation of PhD Program
RESEARCH HIGHLIGHTS

1956

1983-1987

1988

First Major Externally Funded Research Activity

Foundational Funding in Gerontology and NSA

Creation of PhD Program
RESEARCH HIGHLIGHTS

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1983-1987

1984, 1989

First Major Externally Funded Research Activity
Foundational Funding in Gerontology and NSA
Creation, then Joint Sponsorship of ONR(S)
Creation of PhD Program
Research Expansion: 1985-1995

- **Research funding**

- **Faculty with doctoral degrees**

- **Faculty publications**
  40 (1979) → 146 (1995)

- **Faculty National and International presentations**
Joint Sponsorship of the ONR: CON-UIHC DON Research Collaboration

The University of Iowa
Iowa City, Iowa 52242
OFFICE FOR NURSING RESEARCH DEVELOPMENT AND UTILIZATION
P.O. Box 5003
The University of Iowa College of Nursing
Iowa City, IA 52242
and
The University of Iowa Hospitals & Clinics Department of Nursing
Iowa City, IA 52242

Director, Toni Tripp Reiner, Ph.D., R.N., A.A.N.A.
Associate Director, Kathleen G. Buehler, Ph.D., R.N.

TO: Eldeen Borg
Gordon Strayer
FROM: Toni Tripp Reiner
DAYS: June 30, 1989
RS: Announcement of Joint Sponsorship

As of July 1, 1989, the Office for Nursing Research will be jointly sponsored by the College of Nursing and The University of Iowa Hospitals and Clinics Department of Nursing. A new release is attached to this memo.

We would appreciate your coordination of this announcement. If you have any questions, please feel free to contact either myself or Dr. Buckwalter, at the numbers shown above.

Celebrating the 30th Anniversary of the UI College of Nursing and the UI Hospitals and Clinics Research Collaborations (1989-2019)

Patient-centered research begins with clinically-based questions, and the findings from patient-centered research return to clinical practice. Thirty years ago, visionary leaders at the UI College of Nursing (CON) and the UI Hospitals and Clinics recognized that formalizing their partnership would advance nursing science and patient care.

On June 30, 1989, CON Professors Dr. Toni Tripp-Reimer (Associate Dean for Research) and Dr. Kathleen Buckwalter (Associate Director) signed a Memorandum of Understanding with Sally Mathis Hartwig, Director of UI Hospitals and Clinics Department of Nursing. This agreement formalized the collaboration and pledged support from the College of Nursing.

Thirty years later, the partnership between the College and the UI Hospitals and Clinics is still strong. Nursing leaders and front-line clinicians at the hospital and academic partners at UI continue to co-author peer-reviewed papers, submit grant proposals, mentor students and collaborate on a variety of research. Evidence Based Practice (EBP) and quality improvement initiatives.

The strength of this collaboration has been recognized nationally. In 2014, the partnership received the American Association of Colleges of Nursing Exemplary Academic Practice Partnership Award. In 2017, the collaboration received the Academic Clinical Partnership Award from the Midwest Nursing Research Society.

Examples of UI CON-UI Hospitals and Clinics Collaborative Projects:
- Heparin vs. saline for IV flushes
- Family responses during critical illness
- Sliding scale program in the ICU
- Distraction for pediatric procedural pain
- Nurse fatigue reduction strategies
- Incorporation of standardized nursing language into UI Hospitals and Clinics electronic health record
- Pain assessment for elderly
- High-fidelity simulation in the Nursing Clinical Education Center
- Internationally recognized Iowa Model of Evidence Based Practice
RESEARCH HIGHLIGHTS

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1983-1987

Gerontological Nursing Research

1984, 1989

Nursing Service Administration

1988
RESEARCH HIGHLIGHTS

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Creation of PhD Program

1988

NIC, NOC, CNC created

Nursing Interventions Classification (NIC)

“Our purpose is to conceptualize what nurses do in forms of treatment, define those treatments, and develop a taxonomy so it may be effectively communicated. There is a definite need for this, and because of advanced technology there is a demand for a universal validated language for nurses.”

- Joanne McCloskey, PhD, RN, FAAN
Nursing Interventions Classification (NIC)

NIC Founders Gloria Bulechek and Joanne McCloskey
Nursing Outcomes Classification (NOC)

NOC Founders Meridean Maas and Marion Johnson

IOWA
RESEARCH HIGHLIGHTS

- **1956**: First Major Externally Funded Research Activity
- **1984, 1989**: Creation, then Joint Sponsorship of ONR(S)
- **1988**: Creation of PhD Program
- **1983-1987**: NIC, NOC, CNC created
- **1985, 1991, 1995**: Foundational Funding in Gerontology and NSA
- **2001, 2015**: Publication and Revision of Iowa Model of EBP

**IOWA**
The Iowa Model: Development and Revisions

QAMUR, 1987
Iowa Model: RU 1994
Iowa Model: EBP, 1998/2001
Iowa Model Revised: EBP, 2015
RESEARCH HIGHLIGHTS

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2001, 2015
1988: Focus on Areas of Strength

- Tripp-Reimer: Illness in Ethnic Groups
- Buckwalter: Geriatric Mental Health, National Caregivers Project
- Maas: Interventions, Family Involvement in Care in Alz.

- Felton: Professional Nurse Traineeship
- McClelland: Satellite Centers for RNs
- McCloskey: Nursing Satisfaction, Nurse Retention

Gerontological Nursing Research

Nursing Service Administration
Meridean Maas, Ph.D., R.N.
Aging Research
Dr. Maas is studying a special care unit for Alzheimer’s patients at the Iowa Veteran’s Home in Marshalltown, Iowa. In the past, nursing homes integrated Alzheimer’s patients with the traditional resident. Currently, the Alzheimer’s patient is being placed in special environments. “The strategy behind these special care units is to reduce the stimuli the Alzheimer’s patient receives. Controlling and reducing the stimuli is thought to reduce the deterioration of the Alzheimer’s patient.” At the core of Dr. Maas' research is care for the elderly patient with the emphasis on quality.
Gerontological Nursing Research

- **Tripp-Reimer**: Illness in Ethnic Groups
- **Buckwalter**: Geriatric Mental Health, National Caregivers Project
- **Maas**: Interventions, Family Involv. in Care in Alz.
Nursing Service Administration

- **Felton**: Professional Nurse Traineeship
- **McClelland**: Satellite Centers for RNs
- **McCloskey**: Nursing Satisfaction, Nurse Retention
1988 - 1993: Nursing Education and Nursing Care Delivery

Gerontological Nursing Research

- Frantz: Nursing Interventions, Healing Ulcers w/TENS, Pressure Ulcers and TENS in Older Adults
- Tripp-Reimer: Gero Nursing Training Grants (T32)
- Buckwalter: PLST Model for Rural Alz Caregivers

Nursing Service Administration

- McCloskey: Advanced Nurse Education, Expanding NSA, Classification of Nursing Interventions
- Blegen: Hospital Based Managed Care: Cost & Quality
- Weiler: Patient Knowledge/Use of Advanced Directives
- Eland: Education Patients about Cancer Pain
- Felton: Nurse Anesthetist Education Program
- Johnson: Classification of Nurse-Sensitive Outcomes
1994 - 1999: Gero Interventions and Clinical Evaluations

Gerontological Nursing Research

- **Tripp-Reimer**: Gero Nursing Interventions Res. Ctr.
- **Mobily**: Elder Pain in LTC
- **Swanson**: Music Therapy for Elders Agitation in LTC
- **Herr**: Elder Pain—Assessment of Intensity
- **McCarthy**: Diabetes Effects on Learning in Children
- **Culp**: Hydration in LTC to Prevent Acute Confusion

Parent, Child, Family

- **J. Williams**: Genetic Knowledge—Psychosocial Impact
- **McCloskey**: NIC/NOC and Effectiveness
- **Clark**: Alcohol, Bone Mass, Depo Provera, Bone Density in Premenopausal Women
- **Felton**: Professional Nurse Traineeship, Nurse Anesthetist Traineeship
- **Johnson**: Eval. of Nursing Outcomes Classification

Nursing Service Administration
Iowa Gerontological Nursing Interventions Research Center

- 1/6, only NINR research center in midwest
- Established a 17-school consortium

Center Outcomes 1994 - 2010

- 72 pilot grants (w/ Hartford)
- 41 Evidence-Based Practice guidelines
- 47 R-series grants, 4 K-series grants
- 597 publications
2000 - 2005: Pain and Applied Clinical Research

**Adult and Gerontology**
- Tripp-Reimer: Caring for Native American Elders
- Butcher: Written Emotional Exp & Caregiver Burden
- Buckwalter: Treatment for Alz-related Anxiety in ALF
- Herr: Cancer Pain in Elders—Promoting EBP in Hospices
- Buckwalter: Hartford Ctr. for Gero. Nursing Excellence

**Parent, Child, Family**

**Health Systems and Practice**
- J. Williams: Family Health HD Predictive Testing, Genetics T32 Postdoctoral Training
- Dochterman: Training Nursing Effectiveness Research
- McCarthy: Child. Responses to Distraction from Pain
- Clark: Leptin Control of Obesity
- Ayres: Impaired Mobility and Transition to Adulthood
Iowa Hartford Center for Gerontological Nursing Excellence

- One of five original Hartford Centers

Center Outcomes 2000 - 2015:
- Evidence Based Practice guidelines
- GeriatricPain.org
- Predoctoral fellowships
- Precursor to the Csomay Center (2015)
2006 - 2015: Prediction, Prevention, and Training

**Adult and Gerontology**
- **Specht:** EBP Adoption in LTC, M-TRAIN Continence & Pain Control
- **Rakel:** TENS on Pain w/Movement, Osteoarthritis & Fxn
- **Gardner:** Bioburden Predict. of Diabetic Ulcer Complicat.
- **Herr & McCarthy:** Pain Nurse Research Training T32
- **Rakel:** Effectiveness of TENS on TKR Pain w/Movement
- **Smith:** Improving Mood in AL using Cognitive Training

**Parent, Child, Family**
- **J. Williams:** Managing Incidental Genomic Findings
- **Daack-Hirsch:** Communication of Genomic Risk
- **Grossmann:** Metabolomic Biomarkers of Nutritional Int
- **Steelman:** Perioperative Hypothermia Prevention

**Health Systems and Practice**
2017 - Present: Data Mining for Early Detection and Profiling Risk

- **St. Marie**: Decision Support for Responsible Pain Mgmt
- **Gardner & Rakel**: Ctr for Advancing Multimorbid. Science
- **Gardner**: Severe Pain During Wound Care
- **Liu**: Mealtime Difficulties and Food Intake in NHs, OPTIMAL Mealtime Intervention
- **Smith**: Vocal Detection of Late-Life Depression
- **Rakel**: Preventing Post-surgical Pain in At-Risk Veterans
- **Segre**: Well-being in Distressed NICU Mothers
- **Groves**: Nurse Judgements about Safety Concerns
- **Farag**: Medication Safety in K-12 Schools
RESEARCH IMPACT:

Five CON Research Studies that Defined Nursing Science
Nurses’ Job Satisfaction: A meta-analysis of related variables

Mary A. Blegen

(1993). Nursing Research, 42(1), 36-41
The Iowa Model of Evidence-Based Practice to Promote Quality Care

Marita Titler, Charmaine Kleiber, Victoria Steelman, Barbara Rakel, Ginette Budreau, Linda Everett, Kathleen Buckwalter, Toni Tripp-Reimer, Colleen Goode.

Countries using the Iowa Model and Implementation Framework
Pain Assessment in the Nonverbal Patient: Position Statement with Clinical Practice Recommendations

Nurses’ Job Satisfaction: A Proposed Measure

Charles Mueller and Joanne McCloskey

(1990). Nursing Research, 39(2), 113-117
Community-based Participatory Research: An Approach to Intervention Research with a Native American Community

Patti Holkup, Toni Tripp-Reimer, EM Salois, C Weinert

CONCLUSIONS

- First Major Externally Funded Research Activity
- Foundational Funding in Gerontology and NSA
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