

# Telehealth Nursing in Care Settings and Specialties

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# Current activities

- Member of International Society for Telemedicine and eHealth (ISfTeH)
  - Chair, Telenursing Working Group - >140 members; 41 countries
  - Annual conference 'Med-e-Tel' (April) – presentation on telehealth nursing
  - International Council of Nurses Biennial Congress (May) 2 presentations on THNsg
- Journal manuscript reviewer
  - International Journal of Medical Informatics
  - Nursing Outlook
  - Research in Nursing & Health
  - Journal of ISfTeH
- Chapter author
  - Patient Engagement (book soon available)
  - Telehealth-Telemedicine in USA for International Telehealth book series (2018 pub)

# AJN Top 10 Stories of 2016

## IM/IT Direct Impact

- Workplace stress
  - Twelve hour shifts; **EHRs; Evidence-based practice**; shortage or surplus?
- Nursing education
  - **Increased access**; faculty shortage; **expanded simulation**; improved employment prospects
- Care delivery barriers
  - **Care for veterans**
  - Practice authority
- AJN January 2017 p.15

# Definition for telehealth nursing

- Nurses use telehealth-telemedicine technology and applications to complement the delivery of nursing care and conduct nursing practice over distances (geographic) and across barriers (sociocultural, economic).
- As technology and applications become standard practice and available across all fields, 'telehealth nursing' will become 'nursing' in most specialties and settings.
  - Exceptions - telephone triage, home-provider monitoring

# Purpose

- Describe an array of telehealth nursing practice, education and research that demonstrates the depth and breadth of nursing in the telehealth-telemedicine environment.
- Using 2016/2017 telehealth literature in which a nurse is first author
  - Identify purpose and methods and review findings
  - Group publications to demonstrate telehealth nursing array
    - Distance/barriers
    - Life-span
    - Health to illness continuum
    - Nursing education research
    - Nurses as research participants

# Exemplars - over distances, across barriers

- Barker et al. “A telehealth rural practice change for diabetes education and management”
- Cary et al. “Benefits and challenges of delivering tele-rehabilitation services to rural veterans”
- Santos et al. “The use of teleconsultations by nurses in primary care in Minas Gerais, Brazil”

# Exemplars – across the life span

- Navabi et al. “Older adults’ attitudes and barriers toward the use of mobile phones” (IRAN)
- Epstein et al. “Older adults’ and caregivers’ perspectives on in-home monitoring technology” (CANADA)
- Ishola, Chipps. “The use of mobile phones to deliver acceptance and commitment therapy in the prevention of mother-child HIV transmission in Nigeria” (SOUTH AFRICA/NIGERIA)
- Odom. “There is an “app” for that: Designing mobile phone technology to improve asthma action plan use in adolescent patients”
- Goldschmidt. “Tele-mental health for children: Using videoconferencing for cognitive behavioral therapy”

# Exemplars – health to illness continuum

- Bossen et al. “Emerging roles for telemedicine and smart technologies in dementia care”
- Gibson et al. “It was like he was in the room with us: patients’ and carers’ perspectives of telemedicine in acute stroke” (UK)
- Lin et al. “Effects of telephone-based motivational interviewing in lifestyle modification program on reducing metabolic risks in middle-aged and older women with metabolic syndrome” (RCT)(Taiwan)
- Nocella et al. “Structure, process, and outcomes of care in a telemonitoring program for patients with type 2 diabetes”



# Exemplars - nursing education research

- Hay et al. “iM ready to learn”: Undergraduate students’ knowledge, preferences, and practice of mobile technology and social media” (AUSTRALIA)
- Hoglund et al. “Impact of telephone nursing education program for equity in healthcare” (SWEDEN)
- Kowitlawakul et al. “Development of an e-Learning research module using multimedia instruction approach” (SINGAPORE)

# Exemplars – nurses as research subjects

- Kleinpell et al. “Assessing the impact of telemedicine on nursing care in intensive care units” (US)
- Koltveit et al. “Telemedicine in diabetes food care delivery: health care professionals’ experience” (NORWAY)
- Strudwick “Predicting nurses’ use of healthcare technology using the Technology Acceptance Model” (CANADA)

# Future directions

- Strongly encourage telehealth nursing community (and nursing at-large) to integrate technology and new applications into care delivery systems
- Continue to bring nurses' work to the interdisciplinary community
- Advocate with/for nurse-clinicians, educators, researchers working in telemedicine-telehealth
- Advocate for telemedicine-telehealth among the non-healthcare community

# Questions? Comments?

(references available)

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