Telehealth Nursing: Building Knowledge through Research

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Presentation Objectives

- Describe ICN eHealth Programme
- Summarize recent telehealth research findings involving nurses
- Recommendation for developing telenursing research agenda
International Council of Nurses

- Established in 1899
- A federation of 135 national nurses associations representing millions of nurses worldwide
- Three major pillars of work
  - Professional practice
  - Socio-economic welfare
  - Regulation
ICN eHealth Programme

• Vision: transform nursing through information and communication technology

• Established in 2011
  – Telenursing Network
    • >200 members, 55 countries
  – ICNP Terminology for EHRs
  – Sanofi Care Challenge
ICN eHealth Programme

• Building knowledge through restructuring nursing domain knowledge
• Meet the needs of nurses and students
• Advance state of art care delivery information systems
  – Fixed
  – Mobile
Telehealth Literature Review

- PubMed, CINAHL
- Psycinfo
- Author information (nurse)
- Keywords: telehealth, telenursing, telemedicine, eHealth, e-Health
- Authors not always identified by profession
- About 160 articles found
Inclusion Criteria

- Research-based
- Published in 2011
- Nurse investigator (at least one)
- English
Papers Meeting Criteria

• 42 reports of studies
• 5 randomized controlled trials
• Other designs: qualitative, descriptive, correlational
• Theoretical models used:
  – Technology Acceptance Model, Transtheoretical Model, Health Belief Model, Complex Adaptive Systems Theory, Change Theory
Research Topics (9 papers)

• Online self-management (arthritis)
• e-ICU
  – sepsis screening
  – nurses using technology
• Telephone
  – triage (primary care)
  – education (prostatectomy)
  – intervention (arthroscopy)
• Telehome care
  – heart failure
  – diabetes
  – diabetes & hypertension
Gaps in Research

• Professional telenursing role
  – Education, certification, scope of practice
  – Task shifting, licensure

• Safety
  – Technology
  – Clinical decision support systems

• Standard terminologies for nursing documentation
Recommendation

• Survey to develop consensus for telehealth nursing research agenda

• Goals
  – More nurse-lead research
  – Research-based evidence for patient outcomes related to nursing interventions
  – Knowledge generation in support of telehealth nursing practice
Delphi Survey

• Advantages
  – International convenience sample with snowball sample
  – Experts worldwide
  – Participants contribute equally
• Rank research topics (using literature 2011 and forward)
• Multiple iterations
• Analyze and disseminate findings
Summary

- ICN eHealth Programme supports telenursing
- Nurses leading and participating in telehealth research
- Wide range of topics in literature
- Increase nurse visibility in research
- Work toward telenursing research agenda
Thank-you

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