Improving Outcomes, Quality and Experiences of Care: The Critical Role of the Oncology Nurse in Advancing Evidence and Transforming Care
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Great Big Thanks

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&
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My Daughter
GOAL

- Discuss how the work of professional organizations can improve oncology outcomes, quality and experiences of care through scholarship, translation science, education, certification, and health policy.
Happy Nurses Week
Objectives

- Describe ONS PEP initiative as a foundation to accelerate knowledge translation & support evidence-based care delivery.
- Examine relationship between specialty certification & improvement in care quality & patient outcomes.
- Describe selected scientific contributions of ONS to quality cancer care through scholarship, interprofessional collaborations, & health policy.
IOM: Delivering High-Quality Cancer Care

“Care often is not patient-centered, many patients do not receive palliative care to manage their symptoms and side effects from treatment, and decisions about care often are not based on the latest scientific evidence.”

IOM, (2013). Delivering High-Quality Cancer Care: Charting a New Course for a System in Crisis. Author: Washington, D.C.
The Future of Nursing Report

Update 2014:

1. 60% increase – RN-to-BSN programs increased 2010 & 2014 (77,000 -> 130,300)

2. Enrollment increased – 6.6% masters; 3.2% research-focused doctorate; 26.6% practice-focused doctorate

3. 9 states modernized APN laws

Everyone in America can live a healthier life, supported by a system in which nurses are essential partners in providing care and promoting health.

Translational Science

- Translational science: multidisciplinary form of science bridges gaps between fundamental science & applied science, necessitating something in between to translate knowledge into applications.
- Refers to translation of bench science to bedside clinical practice or dissemination to population-based community interventions.
Standard Model

Basic Laboratory Research

Clinical Research

Improved Public Health

Translational Research

Population Research
The Way It Should Work

Basic Laboratory Research

Population-based Clinical Research

Improved Public Health

Patient-oriented Clinical Research

Clinical Trials

National Center for Advancing Translational Sciences (NCATS)
A High-Quality Cancer Delivery System

Evidence Base to Inform Clinical Care

Workforce

Patient-Clinician Interactions

Patients

Accessible, Affordable, High-Quality Care

Quality Measurement (including patient outcomes and costs)

Performance Improvement and New Payment Models

Learning Health Care Information Technology System

IOM, (2013). Delivering High-Quality Cancer Care: Charting a New Course for a System in Crisis. Author: Washington, D.C.
Evidence-Based Practice

- Conscientious, explicit and judicious use of current best evidence in making decisions about care of patient. Integrating individual clinical expertise with best available external clinical evidence from systematic research (Sackett D, 1996)

- Integration of best research evidence, clinical expertise and patient needs result in best patient outcomes

- A problem-solving approach to the delivery of health care that integrates best evidence from studies and patient care data with clinician expertise and patient preferences and values (Melnyk, Fineout-Overholt, Stillwell & Williamson (2010))
Putting Evidence into Practice (PEP)

- ONS PEP resources designed to provide evidence-based interventions for patient care and teaching
- PEP topic teams of nurse scientists, advanced practice nurses, & staff nurses summarize and synthesize available evidence

**Decision Rules for Summative Evaluation of a Body of Evidence** by S.A. Mitchell, MScN, CRNP, AOCN® & C.R. Friese, PhD, MS, RN, AOCN®, on behalf of the ONS Oncology Nursing Interventions for Patient Outcomes Project Team
Putting Evidence into Practice (PEP)

ONS PEP Resources (evidence-based interventions for patient care & teaching)

- Resources can be used to plan patient care, patient education, nursing education, quality improvement, & research
- Interventions incorporated into telephone triage, policies & procedures, quality/performance improvement activities, standards of care & order sets
- Information integrated into orientation, educational programs & nursing grand rounds
- Exploring evidence supporting ONS PEP Resources ideal activity for journal clubs
Green = GO!
The evidence supports the consideration of these interventions in practice.

Yellow = CAUTION!
There is not sufficient evidence to say whether these interventions are effective or not.

Red = STOP!
The evidence indicates that these interventions are either ineffective or may cause harm.

- Anorexia, Nausea & Vomiting
- Pain
- Anxiety & Depression
- Constipation
- Diarrhea, Mucositis, Radiodermatitis
- Skin Reactions
- Lymphedema
- Prevention of Infection
- Prevention of Bleeding
- Dyspnea
- Fatigue & Sleep/Wake Disturbances
Putting Evidence into Practice (PEP)

- PEP Resource Materials
  - Handbook & Cards
  - Web
  - Published guidelines
- Gap -> uptake, utilization, outcome science
  - Dissemination
  - Implementation
  - Model for EHR
Where Oncology Nurses Connect

- **Oncology Nursing Society (501c6)**
  National association serving oncology nurses and their profession

- **ONS Foundation (501c3)**
  Charitable organization providing funding for education and research

- **Oncology Nursing Certification Corporation (ONCC)**
  Non-profit organization that develops, administers, and evaluates programs for the certification of oncology nurses in basic adult, basic pediatric, and advanced oncology nursing

- **ONS:Edge**
  For-profit subsidiary of ONS that integrates nursing knowledge and research deeper into the business of healthcare

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**The ONS Family**

[ONS logo]
[ONS Foundation logo]
[ONCC logo]
[ONS:Edge logo]

[www.ons.org]
Oncology Nurse Certification & Impact on Care Quality & Outcomes

- 1984 -> Oncology Nursing Certification Corporation (ONCC) incorporated
- 1986 -> 1st Oncology Certification Examination (OCN)
- 36,000 certified oncology nurses
Certifications for Oncology Nurses

Oncology Certified Nurse (OCN®)
Certified Pediatric Hematology Oncology Nurse (CPHON®)
Certified Breast Care Nurse (CBCN®)
Blood & Marrow Transplant Certified Nurse (BMTCN™)
Advanced Oncology Nurse Practitioner (AOCNP®)
Advanced Oncology Clinical Nurse Specialist (AOCNS®)
Certified Pediatric Oncology Nurse (CPON®)*
Advanced Oncology Certified Nurse (AOCN®)*
Future Directions of Credentialing Research in Nursing

20 sponsors, IOM workshop strategies to advance research on nurse certification & organizational credentialing

Explored topics conceptual frameworks, research gaps & priorities, advancements in research methodologies & data interoperability, & strategies to encourage & communicate research about nurse credentialing across diverse stakeholder

The Way It Should Work

Basic Laboratory Research

Patient-oriented Clinical Research

Population-based Clinical Research

Clinical Trials

Improved Public Health
ONS Research

1970s -> Understanding Bone Marrow Suppression
- Anemia; Thrombocytopenia; Leukopenia
- Infection
- Triple Antibiotic Treatment

1980s -> The decade of Gastrointestinal Symptoms
- Nausea & Vomiting; Anorexia; Cachexia
- Nutrition

1990s -> The decade of cancer-related fatigue
- Cancer-related Fatigue; ONS FIRE Initiative
- Sleep-Wake Conditions

2000s -> Symptom Clusters
- Marilyn Dodd’s Research and Model
Contemporary Contributions of Oncology Nurses to Improving Symptom Outcomes & Care Quality

- Symptom Management Guidelines
- ONS Core Competencies
  - ONCC Role Delineation Studies
  - Leadership Competencies
  - Nurse Navigator Competencies
ONS Research Priorities

- Research grants
  - 1980 -> ONS Foundation funds 1st oncology nursing research grant (Mead Johnson)
- Research priorities survey & research agenda
  - 1980 -> ONS conducts its first research priorities survey
  - 2013 -> Grant AHRQ to test strategies improving quality of cancer care
  - 2015 -> Palliative care, survivorship, symptom clusters, biomarkers, bioinformatics, comparative effectiveness research, self-management, family, systems, health systems .... Economics & big data
Symptom Clusters (Dodd)

Table 1. Symptom Clusters, Groupings, and Individual Symptoms in Cancer Outpatients (n = 117)

Symptom
Pain, fatigue, and sleep disturbance
Pain only
Pain and sleep disturbance
Sleep disturbance only
Fatigue and sleep disturbance
Fatigue only
Pain and fatigue
ONS Publications

- Books
- Standards
  - Cancer Education
  - Cancer Practice
- Guidelines
  - 1984 -> ONS Cancer Chemotherapy Guidelines
- Safe Handling
- Position Statements
  - 12-13 statements OCN for Nurse Navigator
- Journals
  - Oncology Nursing Forum -> Impact Factor (2.83) ranked 1st among 106 journals in nursing
    - 1978 -> indexed Cumulative Index to Nursing & Allied Health Literature & International Nursing Index (CINAHL)
    - 1990 -> Oncology Nursing Forum (ONF) accepted in Index Medicus
- Clinical Journal of Oncology Nursing
  - 3 most cited articles published by CJON the most cited & third most cited were PEP articles
  - most cited was S. Mitchell’s 2007 PEP Fatigue article
Dissemination
Web of Science Search

- Most cited CJ ON articles in Web of Science (https://webofknowledge.com)
- Web of Science citation reports only include journals accepted for inclusion in Web of Science
ONS Publications
Web OF Science Search

Article 1 = Cited 63 times in Web of Science:

Article 2 = Cited 42 times in Web of Science:

Article 3 = Cited 41 times in Web of Science:

Article 4 =
National Cancer Nursing Research Conference

- National Conference on Cancer Nursing Research (Biennial 1997-2011)
- Los Angeles, CA, 2011
- Orlando, FL, 2009
- Ft. Lauderdale, FL, 2005
- San Diego, CA, 2003
- Ponte Vedra Beach, FL, 2001
- Newport Beach, CA, 1999
- Panama City, FL, 1997
- ACS held event, 1989 – 1994 (Atlanta, Baltimore, etc.)
Ex: State of the Science

- The State of the Science on Nursing Approaches to Managing Late and Long-Term Sequelae of Cancer and Cancer Treatment
  
  http://www.nursingcenter.com/journalarticle?Article_ID=633192

- The State of the Science on Nursing Approaches to Managing Late and Long-Term Sequelae of Cancer and Cancer Treatment, took place in Philadelphia from July 15 to July 17, 2005

- Symposium joint project AJN, ACS, NCCS & University of Pennsylvania School of Nursing

- Funding from Agency for Healthcare Research and Quality (AHRQ #1 R13 HS16072-01), ACS, Lance Armstrong Foundation, & pharmaceutical companies (Sanofi-Aventis, Amgen, Novartis, Endo Pharmaceuticals, MGI Pharma, and Ortho Biotech Products)

- **Outcome:** publication @ 1-2 years after conference
ONS National Conference on Cancer Nursing Research held biennially 1997-2011 had **State of the Science Lecture**. EX: Catherine Bender -> 7th National Conference on Cancer Nursing Research of ACS & ONS.

**January 2006** -> ONS State of the Knowledge Symposium on Neutropenia Management

**July 2004** -> State of the Science Conference on Sleep-Wake Disturbances in People With Cancer and Their Caregivers Funding by NCI (R13 CA108758-01) & ONS Foundation.

**September 2002** -> Advancing Nursing Practice Excellence: State-of-the-Science


**November 1998** -> ONS State-of-the-Knowledge Conference on Nurse-Sensitive Outcomes

**February 1995** -> ONS State-of-the-Knowledge Conference on Quality of Life

**November 1992** -> ONS State-of-the-Knowledge Conference on Fatigue (Schering)
State of the Science

State of the Science


State of the Science

“Cochrane people care deeply that patients should receive the right high-quality health care, at the right time, and in the right way. To achieve this, we need to work closely with health care policy makers, as well as practitioners and patients.”

–Nick Royle, CEO, The Cochrane Collaboration
Interprofessional Collaborations
Influence Policy


Safe Handling of Hazardous Drugs (USP 800). Invitational Meeting in Washington, DC February 2015. HOPA, ASHP, ONS, APHON, ASCO

Position on ASCO Working Group focused on Models of Team Care

ONS & National Cancer Advisory Board

ONS sits on National Cancer Policy Forum

Choosing Wisely Campaign
ONS Launches New Registry to Benchmark and Improve Patient Outcomes (January 2015)

ONS released Quality Improvement Registry, a qualified clinical data registry (QCDR) applies to Physician Quality Reporting System (PQRS)

Registry focuses on care of patients receiving intravenous chemotherapy in ambulatory setting & on aspects of care in first year post-treatment survivorship patients with BC

CMS-approved quality measures available only through ONS Quality Improvement Registry can be used PQRS reporting

ONS Quality Improvement Registry is one of only 36 QCDRs approved nationally by the Centers for Medicare and Medicaid Services (CMS)

Registry collects medical & clinical data for purpose of patient & disease tracking to foster improvement in quality of care provided to patients.

Providers who successfully submit quality data to CMS under the PQRS reporting program are eligible to seek incentive payments & avoid payment penalties.
Oncology Nursing Society
The Future

- ONS/STTI Cancer Survivorship State of the Science scheduled for October 12-14, 2008 was canceled
- Care Transitions
- Dissemination & Implementation of PEP
- Decision Support
- Social Media
- ?????
Asante Sana (Swahili) Thank You

May you find enough inner strength to determine your own worth by yourself, and not be dependent on another's judgment of your accomplishments.

strength
beauty
faith