Where Are We Going: The Future of Cancer

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Imagine
“The future depends on what you do today.”

Mahatma Gandhi
• Globally, more deaths from cancer than HIV/AIDS, malaria, and TB combined
• Cancer is basically a genetic disease
• Precision medicine & personalized medicine have emerged - the treatment environment is changing
Definitions

• Precision Medicine
  – Groups individuals with similar genetic mutations that respond to a specific treatment

• Personalize Medicine
  – Implies a unique therapy for each person
  – Integrates genetics, genomics, pharmacogenomics, & environmental factors
Cancer Today

• People are living longer
• People are having a better quality of life
• Treating the cancer remains a priority but increased attention on the whole person – physical, emotional, psychosocial, spiritual needs
• Nurses are an integral part of the cancer care team & must be recognized as so
Imagine the Future

Prevention & diagnosis
Treatment
Monitoring & providing care

Some content from medicalfuturist.com
Imagine – Prevention & Diagnosis

Breast Imaging

MammoBra?

Fluid Biopsy

iKnife
Imagine - Treatment

• Next gen targeted therapies
• AI based treatment plan – Watson
• Interdisciplinary innovation – radiology & gene therapy
• DNA cages
Imagine – Monitoring & Providing Care
Imagine – Monitoring & Providing Care

• Measuring lab markers with a home device
• New devices for managing chronic pain
• Social media - patients
Imagine – Monitoring & Providing Care
Health Care Robots

Doctor

Nurse
Health Care Systems
Current State
Current State

- 20 million have gained Health Care coverage
- 129 million have pre-existing conditions
  - >20 million cancer survivors by 2016 (ACS projection)
- 11 million have saved an average of $2000 on Medicare Part D
- Health Care costs are 17+% of GDP (World Bank)

Imagine – A Future State

- The Patient Will See You Now  Eric Topol 2015
  - “I am more than certain than ever that iDoc is the future of medicine in the digitalized world. Doctors have had their chance to lead medicine, but they didn’t take it.” from Robin Cook’s, Cell (2014)

- Patient-centered > Patient-driven

- Treatments, clinics, and oncologists defined by the cancer mutation & not the organ
  - Patients with EGFR mutations vs patients with colon or lung cancer
Imagine - The Future of Nursing

The Future of Nursing:
LEADING CHANGE, ADVANCING HEALTH

INSTITUTE OF MEDICINE
OF THE NATIONAL ACADEMIES
• Patient-centered care has always been the cornerstone of nursing & we must look at our care models with this focus

• We have to know more about individual patients and their specific disease profile, not just the general diagnosis.

• We have to have a good understanding of the reimbursement environment as it is evolving
• New clinical practice models need to anticipate, not react to, trends in treatment
  – Impact of oral agents
  – Treatment by genetic markers not tumor site
  – Tele-nursing
• Identification of patients’ needs through:
  – Understanding their preferences
  – Big data
  – Use of technology – health or disease monitoring apps
Cancer Care in the 21st Century

• People are living longer
• People are having a better quality of life
• Treating the cancer remains a priority but more attention is focused on the whole person – physical, emotional, psychosocial, spiritual needs
• Nurses are an integral part of the cancer care team & must be recognized as so
“What got you here, won’t get you there.”
Marshall Goldsmith
Today & For the Future

• Be a life long learner
  – Know your strengths & identify what skills you need to learn & practice
• Understand the why of what you do
  – What your purpose or cause for your work
• Remember that communication is more about listening than speaking
• Accept that change is continuous & develop your skills in managing it
• Be your best self
Thank you