

Where Are We Going: The Future of Cancer

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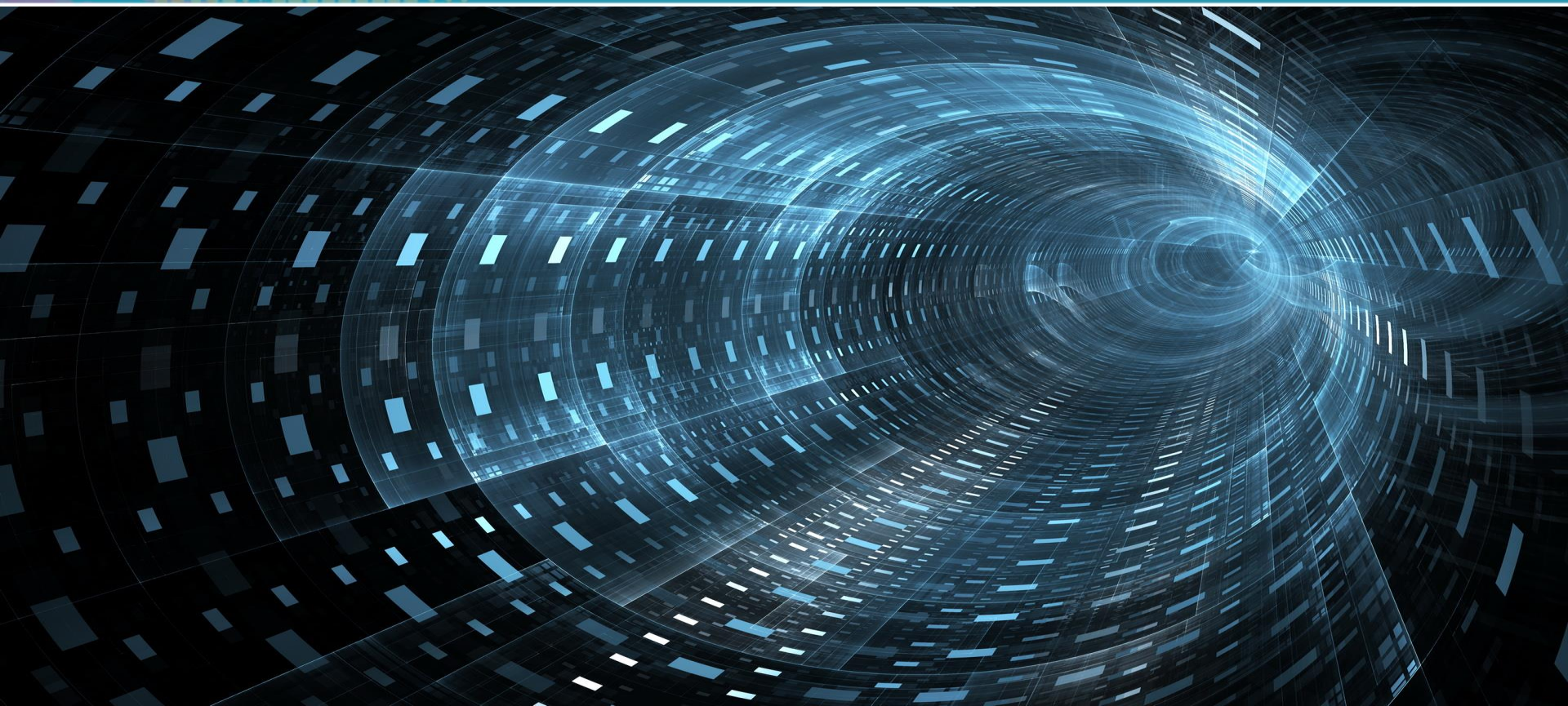
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“The future depends on what
you do today.”

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

- 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

- 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

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Prevention & diagnosis
Treatment
Monitoring & providing care

Some content from medicalfuturist.com

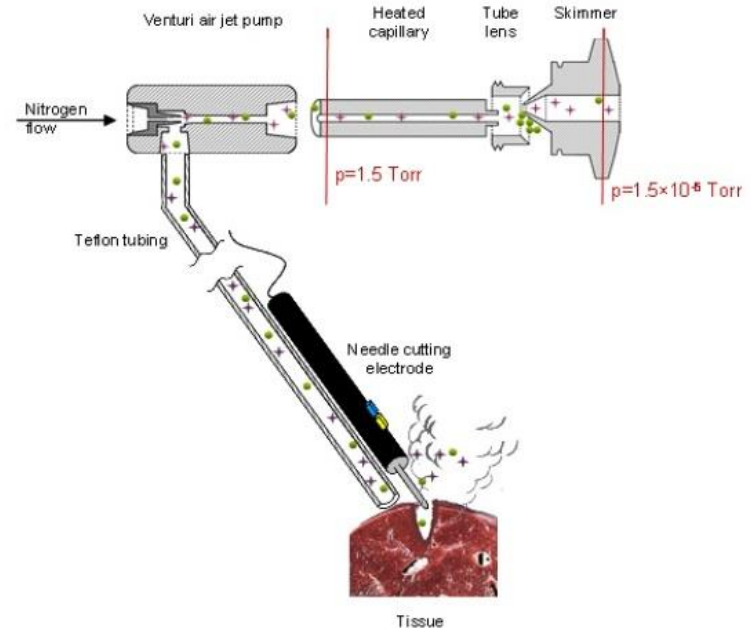
Imagine – Prevention & Diagnosis

Breast Imaging



MammoBra?

Fluid Biopsy



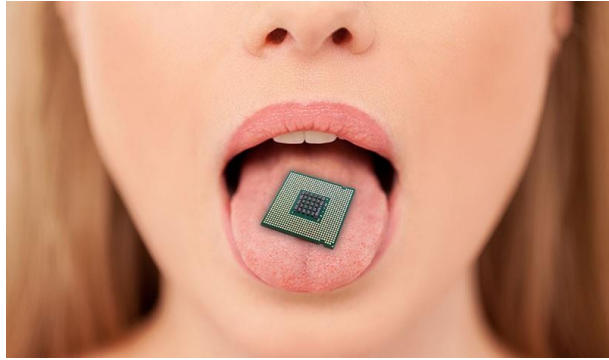
iKnife

Imagine - Treatment

- Next gen targeted therapies
- AI based treatment plan – Watson
- Interdisciplinary innovation – radiology & gene therapy
- DNA cages

Imagine – **Monitoring** & Providing Care

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Imagine – Monitoring & Providing Care

- Measuring lab markers with a home device
- New devices for managing chronic pain
- Social media - patients

Imagine – Monitoring & Providing Care

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Health Care Robots



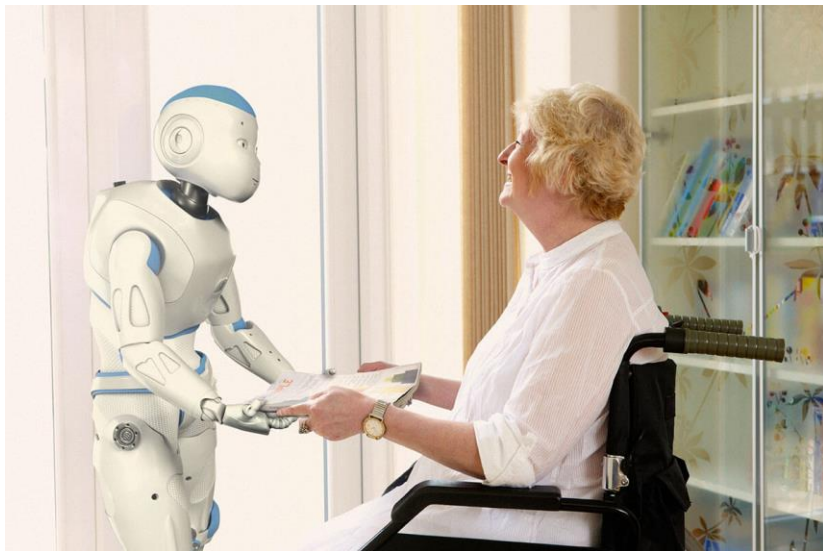
Doctor



Nurse

Companion Robots

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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)

Other data from Health Affairs Blog: Building a System that Works: The Future of Health Care, Sylvia Matthews Burwell, Dec 12, 2016

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

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The Future of Nursing:

LEADING CHANGE, ADVANCING HEALTH



INSTITUTE OF MEDICINE
OF THE NATIONAL ACADEMIES

Nursing Care Today & For the Future

- 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

Nursing Care Today & For the Future

- 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