“Must-Have” Technologies in Cancer Screening, Detection, and Prevention

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Presentation to 2022 Prevent Cancer Dialogue Conference
June 9, 2022
Thinking About Technologies And Cancer

• For our purposes today, use “technology” in broadest sense of the word

• Definition, e.g.: The application of scientific knowledge for practical purposes

• Philosopher Martin Heidegger (right): Technology is “not an instrument”, it is a way of understanding the world

• “Must-have” technologies of today won’t necessarily be those of tomorrow, just as the “not ready for prime time” technologies of today will be essential tomorrow
The State of Play

• “The future has already arrived. It’s just not evenly distributed yet.”

• --William Gibson, science fiction writer who coined the term “cyberspace”
Molecular/Genomic Profiling

- Definition (NCI): Laboratory method that uses sample of tissue, blood, or other body fluid to check for certain genes, proteins, or other molecules that may be a sign of disease
- Application: liquid biopsy
- First FDA approval, 2013: CellSearchCTC enumeration platform (left)
- Detects circulating tumor cells (CTC) in blood in patients with metastatic breast, prostate, or colorectal cancer
- Today, a tool for precision diagnosis/prognosis; what tomorrow?
- Re complete genomic profiling: “Has it moved from the last thing you do when you’ve exhausted standard of care to the first thing you do before you initiate systemic therapy?”

Today... and tomorrow?

45 or older? Start screening for colon cancer with Cologuard®

An effective and noninvasive screening option for adults 45 and older at average risk for colon cancer. Rx only.

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Artificial Intelligence

- **Definition:** “The theory and development of computer systems able to perform tasks that normally require human intelligence, such as visual perception, speech recognition, decision-making, and translation between languages.”*

- **Application:** Combining AI with 3D breast imaging, which is rapidly replacing 2D, but increases radiologists’ workload.

- **AI solution** trained to look for and flag irregularities within clinical images to decrease radiologists’ reading time for DBT interpretation.

*Oxford Languages*
ECHO VS Telemedicine

Although the ECHO model makes use of telecommunications technology – it is not traditional telemedicine, in which a specialist assumes care of a patient. Instead, the ECHO Model can be defined as telementoring, a guided practice model where the participating care provider participants become part of a knowledge-sharing platform for building capacity and sharing best practices through case-based learning.
PRAYASH
TMC - NICPR - ECHO

Cancer Screening
Cancer Screening Online Training Program for Health Professionals: Cervix, Breast and Oral Cancer (CST – HP 5)

Institution
Tata Medical Centre, Kolkata, West Bengal

When
7th May to 13th Aug 2022
Saturdays, 12:00pm - 1:30pm

Link for Registration: [https://tmcnkolkata.com/in/education/prayash-tmc-echo-program/](https://tmcnkolkata.com/in/education/prayash-tmc-echo-program/)
Number of Sessions: 14
Last Date of Registration: 13 May 2022
Registration Fees: 750/-

Who can participate: All medical officers (MBBS/AYUSH) at various health facilities across India both in private and government sector.
THE END