

**IOMS**  
Poster Contest introduction and announcement of Top Poster Presentations

**CURRENT AND FUTURE TRENDS IN MEDICAL EDUCATION AND SCHOLARSHIP**

Hani ARNDOUK, MD, PhD  
Midwestern University

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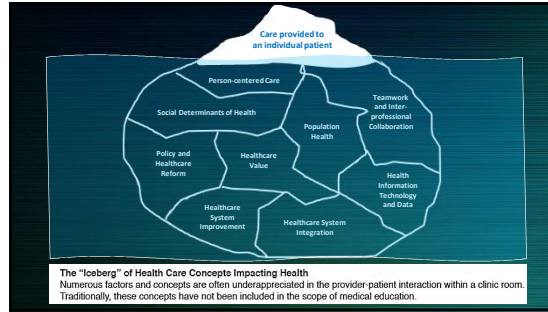
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**Inside the mind of the Master Adaptive Learner**

**Thinking and Reasoning Competencies**

**Critical Thinking:**  
Uses logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems.

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**Inside the mind of the Master Adaptive Learner**

**Thinking and Reasoning Competencies**

**Planning phase:** identifying a gap; selecting an opportunity for learning.

**Learning phase:** seeking to understand the "what," "how," and "why" of the given situation by critically appraising different sources.

**Assessing phase:** trying out what was learned.

**Adjusting phase:** incorporating what was learned into practice.

**CANCER STATISTICS**  
Estimated age-standardized incidence rates (ASIR) in 2020, all cancers, both sexes, all ages

- Cancer is a leading cause of morbidity and mortality in developed countries, including the United States.
- 1 in 2 men and 1 in 3 women will experience cancer in their lifetimes.
- Cancer mortality is slowly declining - 20% over the last two decades.

**CANCER DIAGNOSTICS**

Early detection of cancers, before they spread and become incurable, has been the best weapon in the war on cancer that began with the signing of the National Cancer Act in 1971

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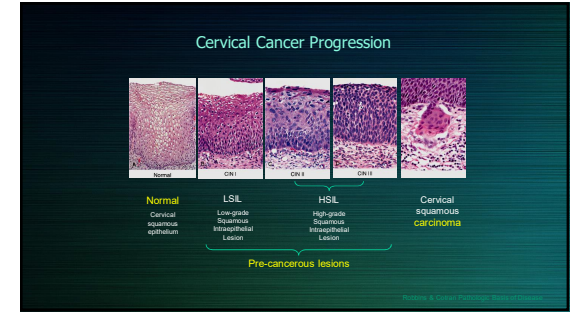
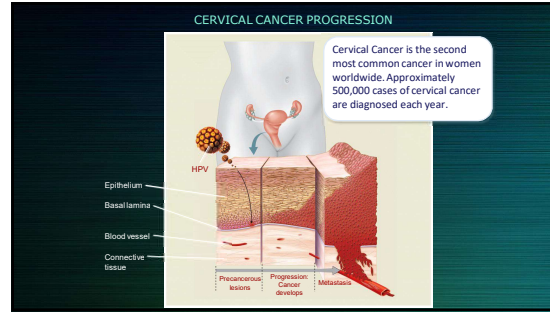
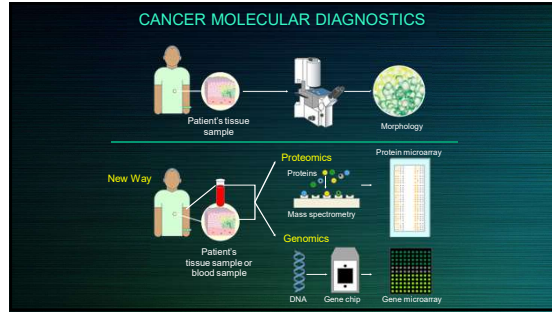
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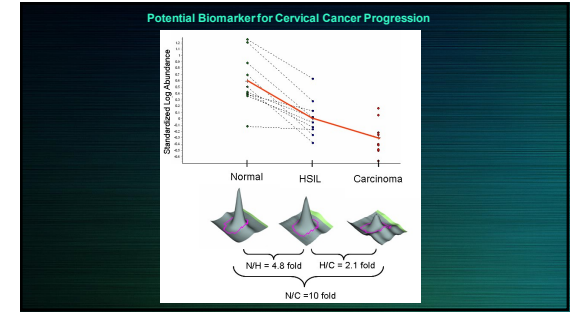
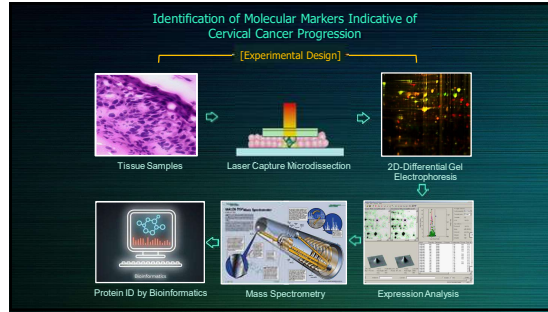
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### Cervical Cancer Progression

- About 60% of **LSIL** lesions **regress**, while only about 10% progress to HSIL.
- It is estimated that 10% of **HSIL** lesions **progress to invasive cancer**.




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**PRECISION MEDICINE ONCOLOGY**

**Personalized Cancer Therapy**

The diagram illustrates the process of personalized cancer therapy. It starts with a group of grey human figures representing a general population. An arrow labeled 'Molecular Profiling' points to a group of colorful human figures (blue, yellow, green, red, purple) representing individual patients. From this group, three arrows point to different outcomes: 'Prognostic Markers', 'Markers predictive of drug sensitivity/resistance', and 'Markers predictive of adverse events'. These markers lead to a group of human figures receiving various targeted therapies, represented by colorful pills and capsules.

Molecular Profiling

Prognostic Markers

Markers predictive of drug sensitivity/resistance

Markers predictive of adverse events

The premise of Precision Medicine is the ability to **customize personalized medical care to individual patients** through the incorporation **molecular diagnostics and targeted therapies**.

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