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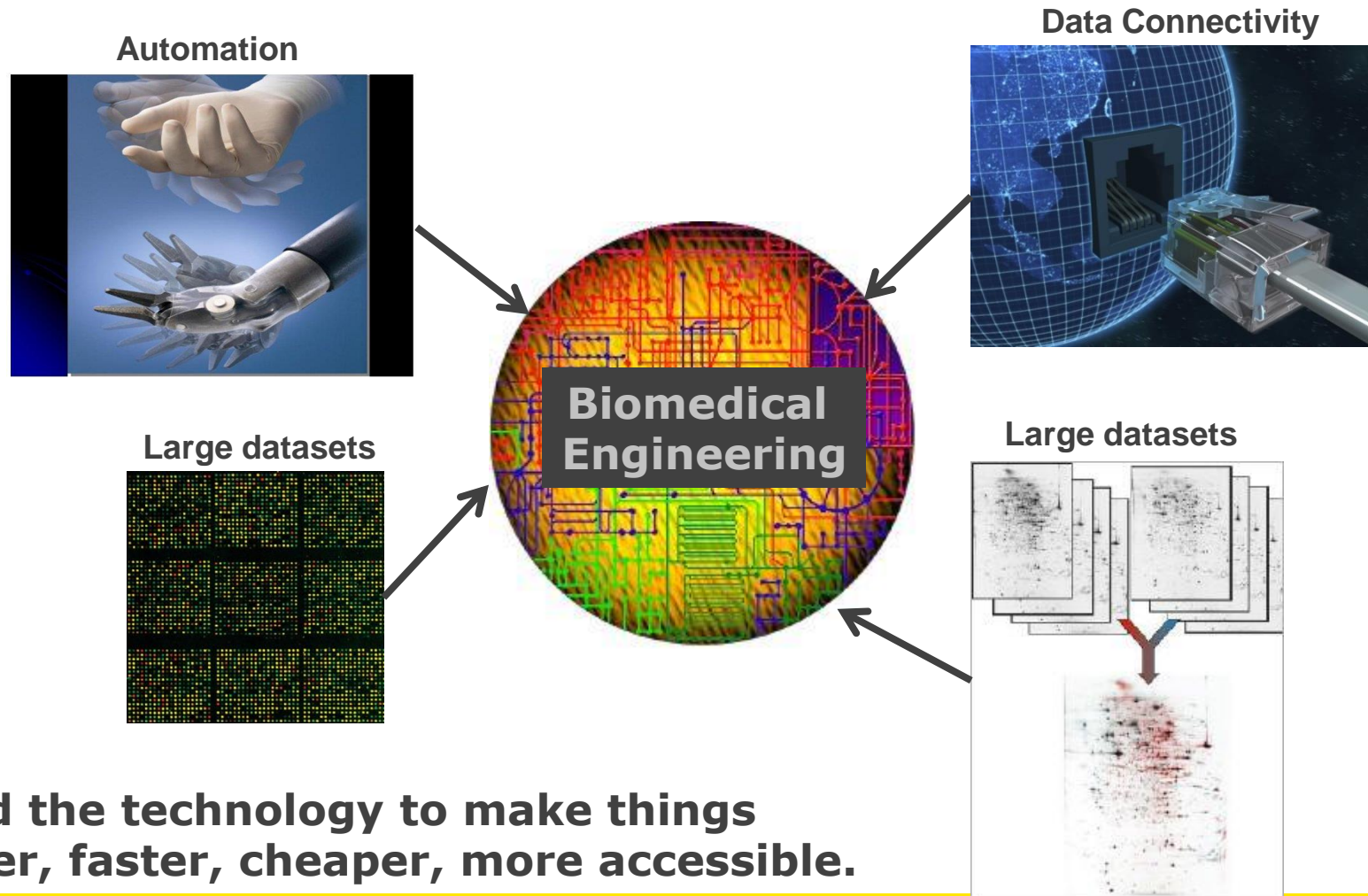
CLINICAL LABORATORY SCIENCE

COURSE INTRODUCTION



Introduction to Clinical Laboratory Science

(Why is it important for your Biomedical Engineering Training....)



Biomedical Engineering – Cross disciplinary

Major challenges in healthcare

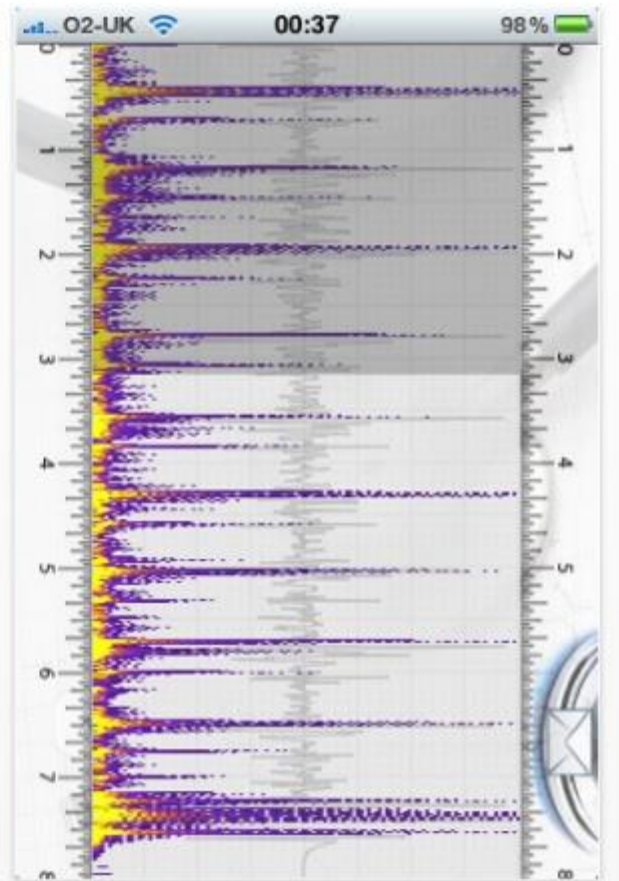
- Access
- Variation in clinical practice
- Inefficient use of information
- Fragmented care versus integrated care
- Duplication
- Cost
- Protracted adoption of technologies

Faster, smaller, cheaper, better....

Technology Innovation



Technology Innovation



Electronic medical records



Faster

Integrated care



Security risks in today's mobile medical devices may threaten more than work productivity

by iMedicalApps Team 1 day ago

Commentary

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By Rajat Kumar, MSIV

Large hospital systems and small medical offices alike are shifting over to electronic records en masse, with increasing adoption of portable platforms to use these systems. Many residency programs are now [beginning to give tablets](#) (such as the iPad) to their residents to encourage the use of electronic charting and prescribing during their training. As the use of tablets, laptops, and other portable devices grows, there is an

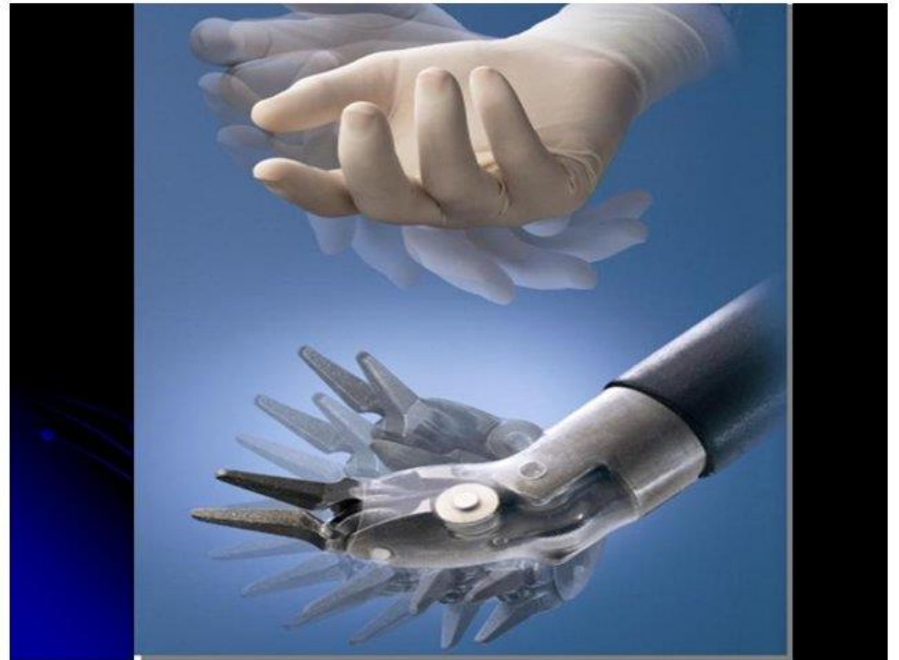
increasing concern of unauthorized access into the devices.



Smaller



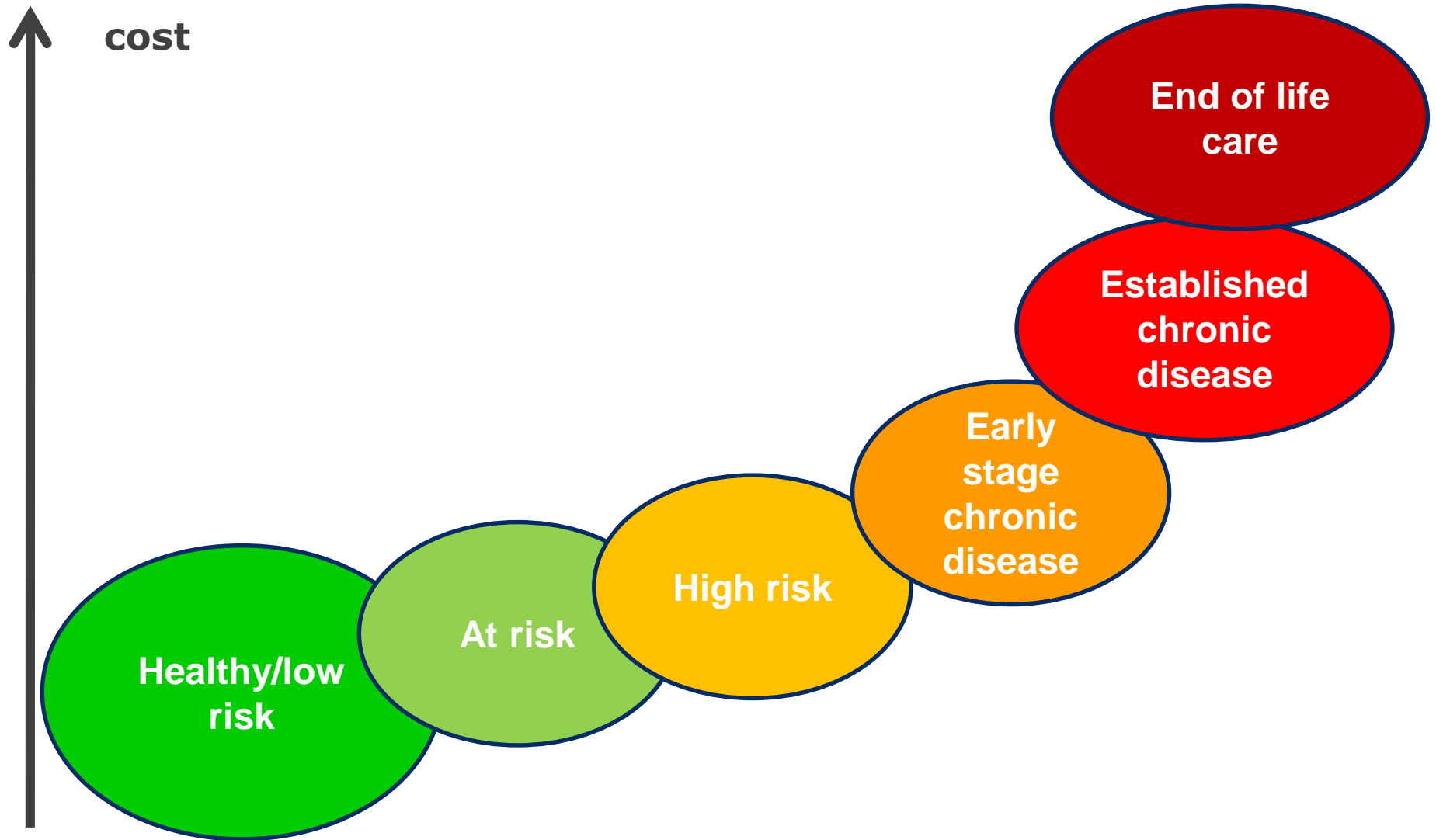
Better



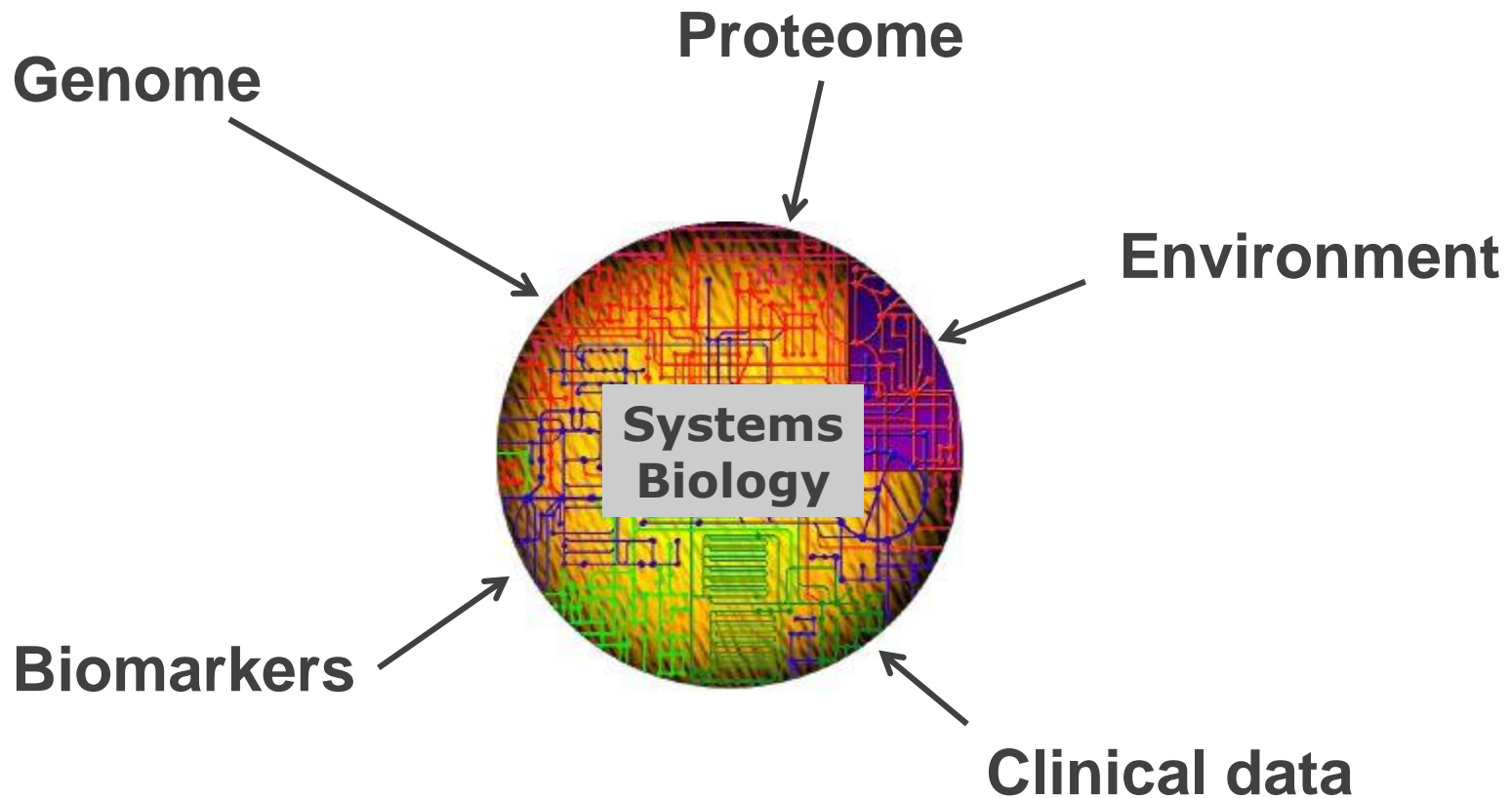
Accessible



Cost - Proactive technologies



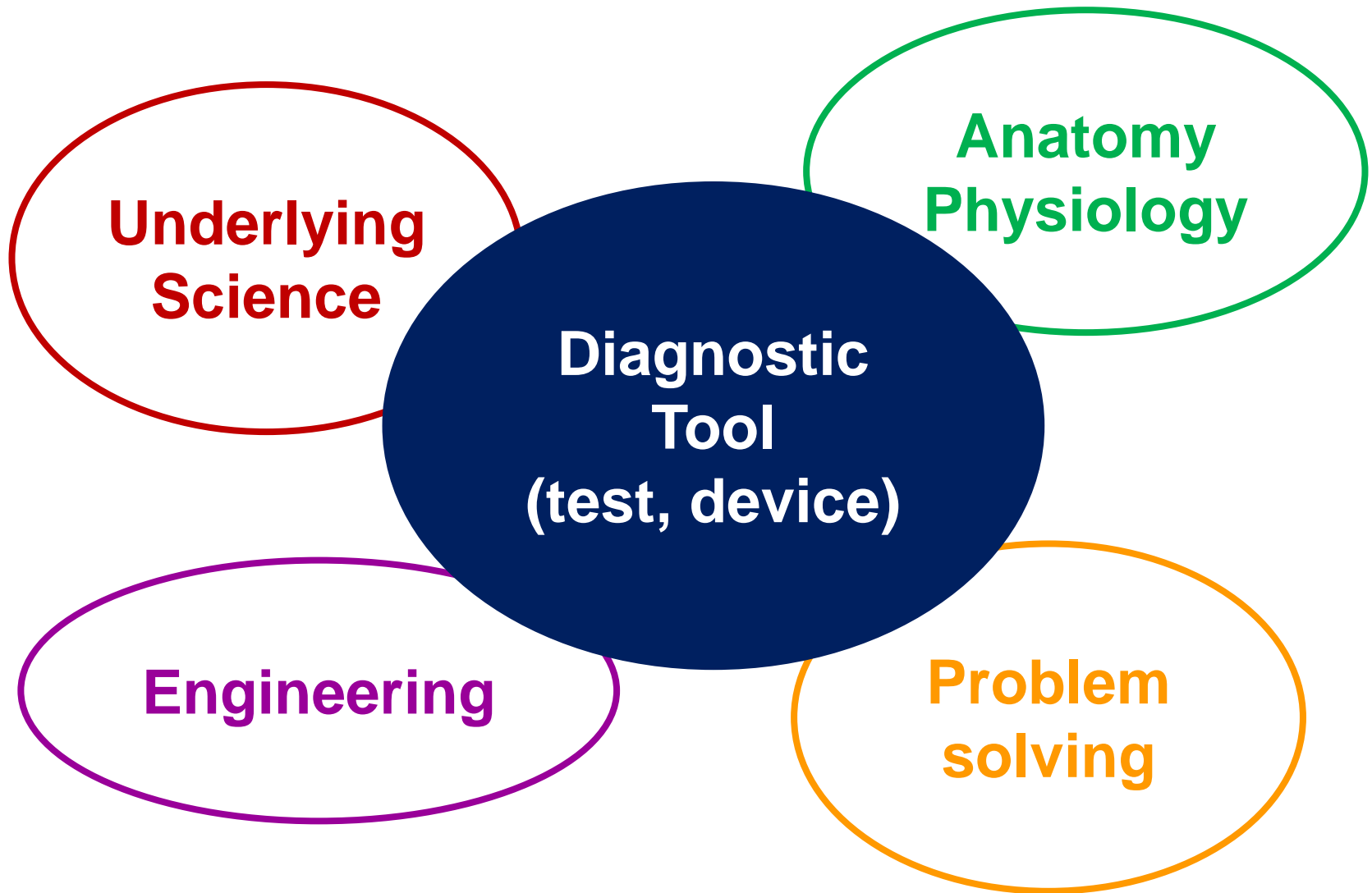
Personalised medicine



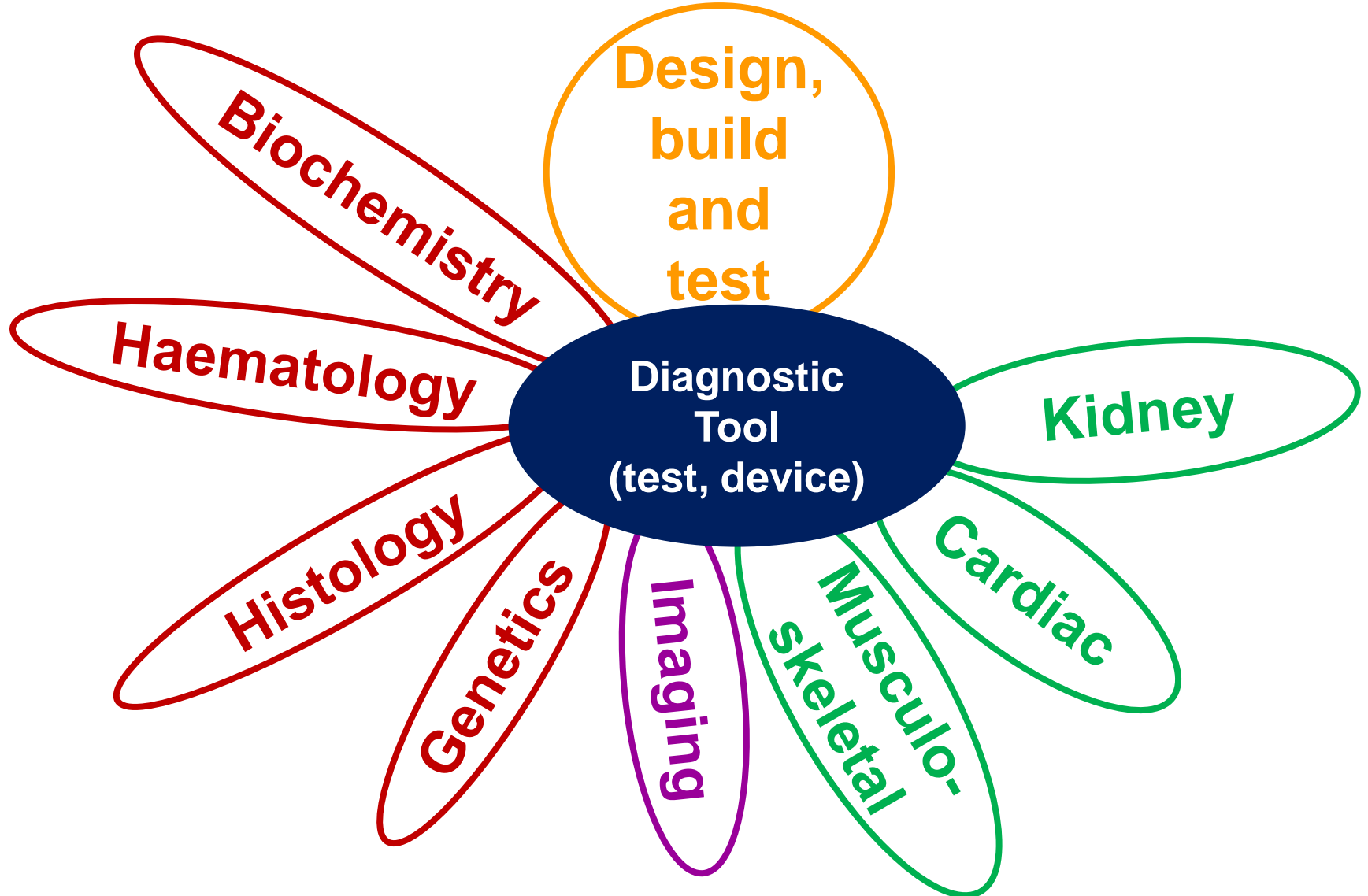
to put together the individual's need for the best health care.

to take on clinical variations and make it patient centred for individual approach.

Course Aims



Course Aims



Course Objectives

- Understanding of the underlying principles of a variety of clinical testing systems
- Problem solving skills in the medical field.
- Teamwork skills and an understanding of an individual's strengths in a team environment.
- Tools for independent and curiosity driven learning.
- Communication skills in scientific presentation and writing.

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Clinical Laboratory Science Assignments

The course introduces students to the tests, operation and technologies of a number of clinical laboratory testing systems (haematology, biochemistry, histology and immunology,) and the way in which they apply to a specific system or organ.

The students will also be presented with the fundamental principles related in the measurement of certain physiological parameters and the way in which they have been engineered into diagnostic equipment.

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