

6. Advanced Use of the EHR

10x10 – Introduction to Biomedical Informatics & Artificial Intelligence
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Advanced use of the EHR

Factors motivating use of EHRs to advance care

- Safety
- Quality

Functions of EHR to advance use

- Health information exchange (HIE)
- Population health

Natural language processing

HITECH, meaningful use, and promoting interoperability

Starting in 2009, we entered a new “ARRA” of informatics

Health Information Technology for Economic and Clinical Health (HITECH) Act of the American Recovery and Reinvestment Act (ARRA)

- Incentives for EHR adoption and more
- (Washington, 2017)

Topics in this unit are not at all new, but their context is changed in light of HITECH, Cures Rule, and more

INFORMATICS PROFESSOR

THIS BLOG MAINTAINS THE THOUGHTS ON VARIOUS TOPICS RELATED TO BIOMEDICAL AND HEALTH INFORMATICS BY DR. WILLIAM HERSH, PROFESSOR AND CHAIR, DEPARTMENT OF MEDICAL INFORMATICS & CLINICAL EPIDEMIOLOGY, OREGON HEALTH & SCIENCE UNIVERSITY.

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Informatics Now Lives in a HITECH World

The flurry of activity from the Office of the National Coordinator for Health IT (ONC) in late 2009 laid out the implementation plans of the Health Information Technology for Economic and Clinical Health (HITECH) Act of the American Recovery and Reinvestment Act (ARRA, also known as the economic stimulus package). The scope of programs was so immense that few aspects of the biomedical and health informatics field will be unaffected by HITECH. I think we can plainly say that informatics now lives in a HITECH world.

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This is a defining moment for the informatics field. Never before has such money and attention been lavished on it. HITECH provides a clear challenge for the field to "get it right." It will be interesting to look back on this time in the years ahead and see what worked and did not work. Whatever does happen, it is clear that informatics lives in a HITECH world now.

Advancing care with the EHR

Patient Safety and Medical Errors

Healthcare Quality

Health Information Exchange (HIE)

Population Health

Natural Language Processing (NLP)

From Meaningful Use to Promoting Interoperability