Clinical Informatics Subspecialty

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Conflict of Interest and Commitment

Director, Child Health Informatics Center, American Academy of Pediatrics

Editor-in-Chief, Applied Clinical Informatics

Vice President, International Medical Informatics Association

Member, Federal HIT Policy Advisory Committee

Chair Subboard Clinical Informatics, American Board of Preventive Medicine
Meaningful Use = Disruption In Health Care
Adoption of EHRs

Source: www.healthit.gov
Disruption

Converted 20% of the WORLD’s largest GDP from paper to electronic in five years

Source: Doug Fridsma, Past Chief Science Officer, ONC
Workforce Demands

• Recognition
  – Health care lacked the informatics workforce
    • Quantity (warm bodies)
    • Quality (experts)
Clinical Informatics Needs

• Demand across ALL clinical specialties
  – Implement, manage, and advance electronic health record systems
  – Computerized Provider Order Entry
  – Aid in designing clinical decision support
  – Manage data
    • Research
    • Business Analytics
    • Clinical Documentation

• Newly created CMIO and CHIO positions
Demand for Informaticians

Job Trends from Indeed.com

- pharmacy informatics
- nursing informatics
- medical informatics

Percentage Growth

Jan '06 Jan '07 Jan '08 Jan '09 Jan '10 Jan '11 Jan '12 Jan '13 Jan '14
Clinical Informatics Board Certification
ABMS Announces Certification in Two New Physician Subspecialties:
Clinical Informatics and Brain Injury Medicine

CHICAGO – Oct. 31, 2011 – The American Board of Medical Specialties (ABMS), the organization
responsible for certifying physicians as specialists in the United States, announced the creation of
Eligibility

- Current Certification by one of the ABMS Boards
  - Certified by the ABPath must apply through ABPath
  - All other apply through the ABPM

- Accredited Medical School

- Current License(s)
  - Unrestricted and currently valid license(s) to practice medicine
Core Content (1/4)

• Fundamentals: The basic knowledge that provides clinical informaticians with a common vocabulary and understanding of the environment in which they function.
  – Clinical Informatics
  – The Health System
Core Content (2/4)

- Clinical Decision Making and Care Process Improvement: The knowledge and skills to implement effective clinical decision making systems and develop clinical processes that support effective, efficient, safe, timely, equitable, and patient-centered care.
  - Clinical Decision Support
  - Evidence-based Patient Care
  - Clinical Workflow Analysis, Process Redesign, and Quality Improvement
Core Content (3/4)

- Health Information Systems: The knowledge and skills to develop or select a clinical information system; prepare and support clinicians for an implementation, operate and evaluate a clinical information system.
  - Information Technology Systems
  - Human Factors Engineering
  - Health Information Systems and Applications
  - Clinical Data Standards
  - Information System Lifecycle
Core Content (4/4)

• Leading and Managing Change: The knowledge and skills to lead and manage changes associated with implementing clinical information systems and promoting adoption by health professionals.
  – Leadership Models, Processes, and Practices
  – Effective Interdisciplinary Teams
  – Effective Communications
  – Project Management
  – Strategic and Financial Planning for Clinical Information Systems
  – Change Management
Individual Certification Process

The candidate must have completed either the Practice Pathway or the Fellowship Pathway.

Beginning in 2018, the Practice Pathway will no longer be available and the Fellowship Pathway will be required.
Board Exam

• September 2013
  – Oral exam for those Committee members eligible for the Board Exam

• October 2013
  – First Clinical Informatics Subspecialty exam
  – 432 received the Subspecialty Board Certification for Clinical Informatics
Clinical Informatics Fellowship Programs: In Search of a Viable Financial Model

An open letter to the Centers for Medicare and Medicaid Services

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- Subspecialty training by
  - Anesthesiology
  - Diagnostic Radiology
  - Emergency Medicine
  - Family Medicine
  - Internal Medicine
  - Medical Genetics
  - Pathology
  - Pediatrics
  - Preventive Medicine