

21st Century Health Care: The "Right Stuff"

Carolyn M. Clancy, MD

Director

Agency for Healthcare Research and Quality

National Committee on Vital and Health Statistics

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 Medicine Takes Off
How We Make Progress
Transformation Framework



Aviation: Back Then

Basic efficacy was accomplished, but there were no systems for safety and quality



The 'Wright Flyer,' the first manned flight: 1903



Aviation: Advancing Science

Doppler radar technology: flying had become safer, but crashes and malfunctions were still common

Radio technology for communication

Bombs had approximately 7 percent accuracy rate



World War II era



Aviation: Today



Seamless team communication Training is continuous and includes simulation Precision-guided munitions Crashes are extremely rare



Do We Have The "Right Stuff?"

We are past the Wright Brothers stage

We have not reached the systems-based approach that creates a consistently high quality experience

We need information infrastructure and support to achieve this goal





Imagine… in ≤ 5 Years

- 68-year-old male with diabetes and hypertension
 - PHR linked to EHR
 - E-messaging and E-prescriptions
 - Quality measured and reported electronically
- Measures increasingly focus on quality and value outcomes over episodes of care
- Best practices to improve outcomes shared among providers and patients
- Comparative effectiveness evidence to guide treatment
- Patient registries
- Payer incentives reward the physician and the patient





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A Vision of Transforming Health Care

- Health IT
- Comparative effectiveness
- Medical education and training
- Quality measurement
- Quality improvement networks
- Safety First
- Alignment of incentives





Foundation of Health IT Infrastructure

Health IT will enable quality improvement

Automating inefficiencies will not improve outcomes

Implementation without consideration of workflow and patient experience could be extremely harmful





Comparative Effectiveness

- Our deficiency in understanding effectiveness among preventative, diagnostic, and treatment options hampers our ability to deliver high value care
- As we build this knowledge, we need to determine how to incorporate into decision-making and measure the results



Goal: to develop and disseminate better evidence about benefits and risks of alternative choices

Medical Education and Training

From information mastery to information *management* Continuous learning and the ability to access and understand information Simulation will replace "see one, do one, teach one" Additional training to understand system redesign, quality improvement, and comparative effectiveness





Quality Measurement

- Needs to be coordinated through collaborative efforts Providers, patients, and payers should inform measure development, use, and enhancement Data should be collected at the point of care Measures must address
 - coordination of care, efficiency, and patientcentered outcomes





Quality Improvement Networks

Networks can help providers measure and report Networks can implement change and measure results The practice of medicine then becomes a learning network We must learn how to test interventions, redesign systems and spread successful interventions







- Current focus (detecting errors and causes, and interventions in piecemeal fashion, if at all) needs to evolve
- Need to test systembased interventions
- Health IT will play a major role in systems designed to decrease harm



Incentives

Incentives need to be aligned to reward quality and value Payment based on volume of services delivered will end The research and provider community need to engage in the development of quality and value measures quickly

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Transformation

How do we transform a system accounting for 16 percent of our economy?

- We need a roadmap
- Need to rethink our training, measurement and system design
- Change reward system

The "3T's" Road Map to Transforming U.S. Health Care

Transformation in Culture

Health Care GPS

Seeing the Forest... ...and the Trees

- A robust health care system must include capacity for:
 - Rapid translation of beneficial advances or breakthroughs
 - Connectivity with the biomedical enterprise

Achievability: What can work under ideal circumstances for some people Reliability: Getting it right for all patients every time – the first time

The Bottom Line

Success for 'meaningful use' = improved quality, outcomes and value Emphasize and incentivize data sharing as essential step to care coordination Create policy interoperability Tailor investments to stage of adoption Meaningful use is a destination – and a journey