

Emergency Medicine's Role in an Emerging Healthcare System

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Emergency Care Circa 1960



“People keep coming *down there*”



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Forces Driving the Development of EM

- **Societal Factors**

- Growing population
- Aging population
- Rise of chronic illness
- Urban growth – Poverty
- Mobile population
- Increased trauma
- Changing expectations
- Insurance coverage
- Scientific discovery

- **Physician Factors**

- Fewer GPs/more specialists
- Fewer housecalls
- Suburban translocation
- Busier practices
- Less availability

Institutional Factors

Hospital/technology needed for advanced care

Cost

Personnel

24 hour availability

Growth of ED Visits

1961 – First full-time EPs in US

- *Adapted from Webb ML and Zink BJ*

IOM Report on the Future of Emergency Care - 2006



Key Findings – Gains and Losses

- 1993-2003
 - US population increased 12%
 - ED visits increased 26% (90.3 million to 113.9 million)
 - US lost:
 - 703 hospitals
 - 198,000 hospital beds
 - 425 EDs
- 2001 – 60% of hospitals operating over capacity

Impact

- Overcrowding
- Boarding
- Ambulance Diversion
- Loss of “surge capacity”

Key Findings - Fragmentation

- EMS
 - Multiple providers, little coordination
 - Multiple models in single service areas
 - Multiple, disconnected medical directors and protocols
 - Inability to “load balance” among facilities
- ED
 - Data problems
 - Lack of interoperability with EHRs
 - Lack of EHRs
 - Patients with multiple, disconnected providers

Impact

- Crowding
- Patient distribution often not connected to capability or capacity
- Care not appropriately standardized or coordinated
- Redundant testing
- Lack of data necessary to care for the patient

Key Findings - Utilization

- Medicaid patients use the ED:
 - Four times more frequently than the privately insured
 - Twice as often as the uninsured
- ED patients are increasingly:
 - Elderly
 - Chronically Ill
 - Medically complex

What has happened since the IOM report?

- In many areas there has been little progress
- The landscape has changed somewhat

How far have we come in four years?

- Problems are largely the same
 - EDs at or over capacity (2007)
 - 67% of urban hospitals
 - 47% of all hospitals
 - Diversion
 - 56% of urban hospitals report some time on diversion

Four years later

- ED visits growing faster than population growth
 - Virtually all accounted for by an increase in visits by adults with Medicaid
 - Essentially no change in visit for those with:
 - Private insurance
 - Medicare
 - The uninsured
- Are we doing a better job of providing chronic illness care to Medicare recipients?
- Do Medicaid enrollees have a difficult time obtaining primary care?

Four years later

Number of facilities qualifying as “safety net” EDs increased.

Four years later

- Fragmentation is still a problem
 - EDs are part of a complex, poorly coordinated web of care for the chronically ill
 - EHRs more common
 - Interoperability still a problem
 - Issues of time limitation and data overload

Local Impact

- EMS
 - Fragmentation remains a problem here, as well
 - Local example
 - 50 plus providers of EMS in the greater Houston area
 - A variety of different models
 - No real regional authority
 - A bit of paranoia

Local Impacts

- Local ED capacity appears to be improving
 - Several new suburban hospitals
 - Freestanding EDs

Four Years Later

- Regionalization – Still far to go.
 - Pediatrics and Trauma largely successful
 - Stroke, Cardiac, less so

Barriers to Regionalization

- Patient Preference
- Financial Factors



“Bob” Paramedic



Commitment to Trauma

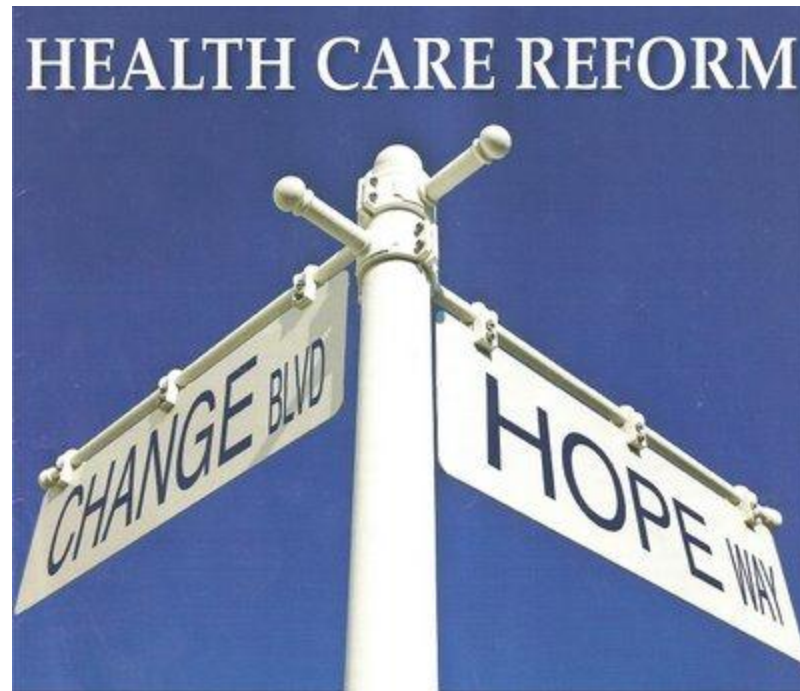
- Designation vs. True alignment to trauma care

Four years later – Myths still the same

- “The problem with the *emergency room* are the people who use it as a clinic.”
- CDC – 88% of ED visits are for needed care.

The Impact of Healthcare Reform

One view



The impact of healthcare reform: Another view

This is going to hurt



Impacts we can reasonably expect

- ED Utilization in Texas may increase
 - In MA ED use increased 9%
 - Why?
 - PCP shortage
 - US national average -1.2 PCPs/1000 people
 - MA -1.8 PCPs/1000 people
 - TX – 0.9 PCPs/1000 people

Impacts we can reasonably expect

- Aging population = More chronically ill people
- People with 10 or more chronic illnesses utilize hospital services 360 times more frequently than healthier people



After Fee for Service

- Pay for performance
- Gain sharing
- Cost reduction

- Measurements and ratings
 - Quality
 - Cost
 - Satisfaction

The role of EM in new payment models

- Problems and Risks
 - Information
 - Too little
 - Too much
 - Lack of comprehensive tort reform
 - Human nature – risk tolerance
 - Legislation
 - Public expectations

The Role of EM in new payment models

- The “right” amount of data is key
- The ED as a “safety net”

The role of EM in new payment models

- Bundled Payments
- Accountable Care Organizations (ACOs)
- Capitation

“When there is less food, table manners deteriorate” Nate Kaufman



The role of EM in new payment models

- Ideal Emergency Care
 - Used only when needed
 - Non-duplicative; complementary
 - Part of a continuum of care; not an independent silo
 - Efficient and effective

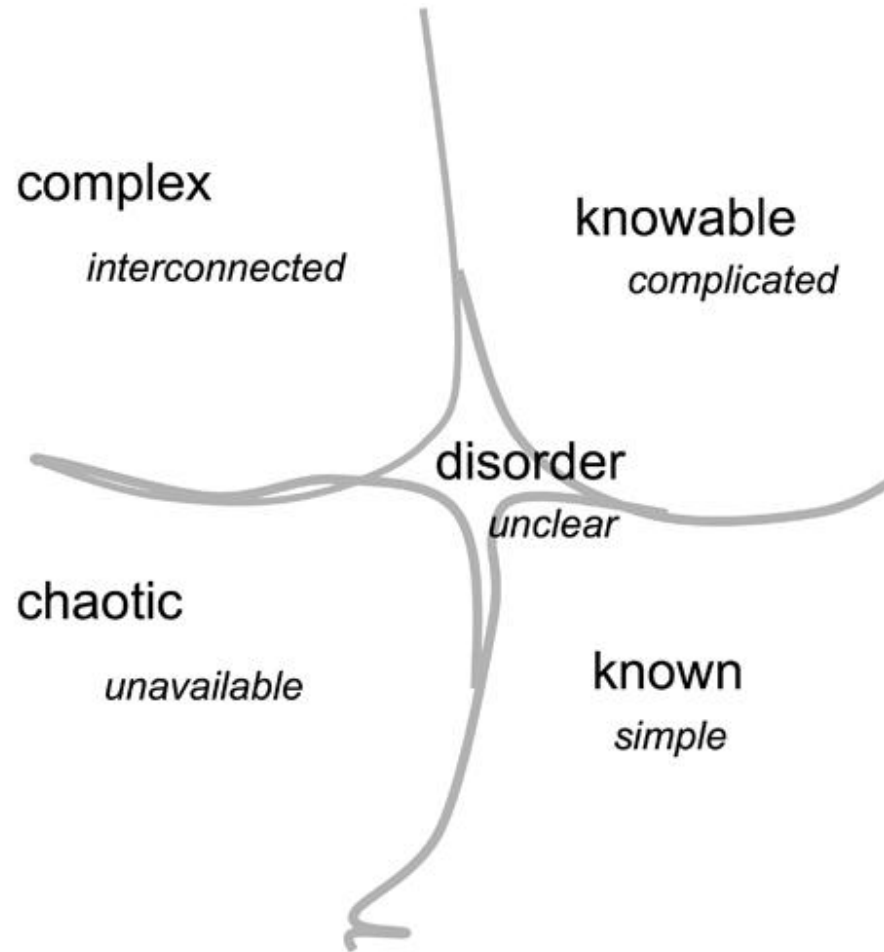
Tools

- Operations Engineering
 - Six Sigma
 - Lean
 - Others
- Cognitive science
 - Error reduction
 - System resilience

The Twin Constraints

- Time
- Information

Cynefin Framework





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