Population Health
and
The Future of Emergency Medicine

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Medical Director, Population Health
St Joseph’s Health
President Elect and Board of Directors - ACEP

The Economist
Reforming health care
This is going to hurt

The New York Times
Patients’ Costs Skyrocket; Specialists’ Income Sours

DO WE HAVE GREAT HEALTHCARE
DO WE HAVE A GREAT HEALTHCARE SYSTEM

Gun Control and Premature Death

Ranking of overall health system performance
1. France
2. Italy
3. United Kingdom
4. United States
5. Germany
6. Spain
7. Canada
8. Costa Rica
9. United States of America
10. Brazil
11. France
12. Italy
13. United Kingdom
14. United States
15. Germany
16. Spain
17. Canada
18. Costa Rica
19. United States of America
20. Brazil
21. France
22. Italy
23. United Kingdom
24. United States
25. Germany
26. Spain
27. Canada
28. Costa Rica
29. United States of America
30. Brazil

Level and distribution of health
- Responsiveness – level and distribution
- Expenditures – per capita, fairness of financial contribution

Gun Control and Premature Death
Social Expenditure Spending
% of GDP

Medical Care’s Importance
Factors accounting for premature mortality in the USA:
- One’s standard of living and lifestyle (50%)
- Genetic disposition or make up (20%)
- Social and environmental (physical, cultural, and economic) factors (20%)
- Medical Care accounts for (10%) making it the least critical factor

Source: Centers for Disease Control

Begs the question: How should we invest in (budget for) and structure our health care enterprise?
The “Triple Aim”

- **Better Health:** Improve the health of populations
- **Better Health Care:** Improve the patient experience of care
- **Lower Costs:** Reduce the per capita cost of healthcare

Care Coordination/Continuum of Care

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**Do We Need Systemic Change or Does Supply And Demand Satisfy Patients’ Needs, Wishes, & Desires for**

Goals of Health Policy: A Zero Sum Game

- **Access**
- **Quality**
- **Cost of Care**

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**The Results of Our Current Market Driven System Products and Rewards**

with health spending growing 2.5% points faster than GDP

In 2005 close to 50%

18.4% Current CMS forecast

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Can this be done in the Emergency Department
Healthcare Globalization and Changing Healthcare Market

Tourism
Telemedicine
Retail Medicine
Technology will result in better, more effective care...and higher costs!

Adoption of Telemedicine

More than half of healthcare IT professionals believe that telemedicine will be widespread within five years

<table>
<thead>
<tr>
<th>Definition of Telemedicine</th>
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<tr>
<td>Diagnoses and/or treatment of a patient by a health professional using electronic technology (e.g., video)</td>
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Percentage of healthcare IT professionals believing that telemedicine has achieved widespread adoption
Need to refocus

Prevention, Waste and Care Coordination
Health Equality

PCMH
ACO
Care Coordination
Overview of a Medical Homes and Accountable Care Organizations

Key Components of the Medical Home?

Medical Home Pilot Results
SO...WHAT IS POPULATION HEALTH

Health Equality vs Equity

But...What is Population Health

Tools
Management of Asthma

- Identify the Problem
- Hot spotting
- Care Coordination
- Nothing Stands in the Way of Health
  - Vacuum Cleaners
  - Air Filtration
  - Mold Mitigation

Population Health Paradigm

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Conventional Healthcare</th>
<th>Population Health</th>
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<tbody>
<tr>
<td>Curing disease</td>
<td>Preventing disease</td>
<td>Keeping people healthy &amp; well</td>
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<tr>
<td>Values</td>
<td>Prevention of disease</td>
<td>Emphasis on wellness</td>
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<tr>
<td>Diagnosis, treatment &amp; cure</td>
<td>Timely &amp; high-quality cost-effective care</td>
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<tr>
<td>Physician's expertise</td>
<td>Agency and self-efficacy</td>
<td></td>
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<tr>
<td>Unlimited access to healthcare*</td>
<td>Medical home</td>
<td></td>
</tr>
<tr>
<td>Methods</td>
<td>Diagnosis &amp; treatment</td>
<td>Personalized wellness plans</td>
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<tr>
<td>Fee-for-service</td>
<td>Community engagement &amp; prevention</td>
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<td></td>
<td>Global payments</td>
<td>Shared health information</td>
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Constraints

<table>
<thead>
<tr>
<th>Cost</th>
<th>Implementation cost</th>
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<tbody>
<tr>
<td>Continuity of care</td>
<td>Politics</td>
</tr>
<tr>
<td>Lack of access</td>
<td>Culture</td>
</tr>
<tr>
<td>Administrative burdens</td>
<td></td>
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<td>Limited patient contact</td>
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Opportunities

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<tr>
<th>Greater autonomy</th>
<th>Cost effectiveness</th>
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<tr>
<td></td>
<td>Evidence-based &amp; personalized medicine</td>
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<td></td>
<td>Increase quality &amp; reduction of errors</td>
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Assumptions

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<tr>
<th>System &quot;rescue&quot; patients</th>
<th>Patient is responsible for health &amp; wellness</th>
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<tr>
<td>Doctor center of authority</td>
<td>Doctor center of care team</td>
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Some Population Health Initiatives

- Water and sewage treatment
- Smoking
- Seat Belts

A Population Health Program

[Image of a population health program]

[Image of a graph showing population health examples of interventions]
LIFE EXPECTANCY ACROSS THE RIVER
OK, so ......
PATIENT CENTERED MEDICAL HOMES
Why Pursue Excellence in Primary Care?

- Research demonstrating that:
  - The medically homeless receive expensive and poor care
  - The consumer that is affiliated with a primary practice receives better care
  - The consumer affiliated with a primary care physician in a practice receives better care
  - High performing primary practices achieve remarkably efficient and effective results

- Value over volume - Industry calling for improved clinical outcomes

- Patient Centered - Greater focus on excellent patient access and experience

- Patient-centered medical management - Ours need to shift responsibility for improvement to the practices themselves

- Shared Risk - Ability to identify ACO-ready practices suitable for contracting approaches

focus on shared responsibilities and reduce the need for horizon to manage the practices.

But.....

CATASTROPHIC ILLNESS
DESPITE THE PROGRESS OF MEDICAL SCIENCE

World Death Rate Holding Steady At 100 Percent

Healthcare has made tremendous strides in the last few decades, but the progress of medical science has not translated into a decline in the world's death rate. Despite advances in technology, medicine, and public health, the number of deaths remains stubbornly high. The reasons for this are multifaceted, ranging from improvements in healthcare, which have led to the discovery of new diseases and the development of new treatments, to changes in lifestyle and environmental factors that contribute to the high death rate.
The ACO at St Joes

Thoughts

- Asthma Management
- CHF and Patient Ping
- A Culture of Wellness
- 7000 Employees
The ED 2020

- Emergency and Trauma
- Walk-in Primary and Urgent Care
- Wellness Center
  - Vaccines,
  - DM,
  - BP
- Falls Prevention
- ED Waiting Room
- More.....

Think Different

Last Story

91+88=Priceless
Falls

http://www.cdc.gov/steadi/index.html
8 Months Later

- Evelyn
  - 20% Loss Body Weight
  - Disability
  - Hospice
  - Depression
- Stanley
  - Alienation
  - Depression
  - Disability

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- Evelyn
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Thank you
One Year Latter

• Evelyn
  – Weight
  – Independent

• Stanley
  – Driving

Thank you