Creating a High-Value Health Care System

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This presentation draws on Michael E. Porter and Elizabeth Olmsted Teisberg: Redefining Health Care: Creating Value-Based Competition on Results, Harvard Business School Press, May 2006, and "How Physicians Can Change the Future of Health Care," Journal of the American Medical Association, 2007; 297:1103-1111. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means — electronic, mechanical, photocopying, recording, or otherwise — without the permission of Michael E. Porter and Elizabeth Olmsted Teisberg. Further information about these ideas, as well as case studies, can be found on the website of the Institute for Strategy & Competitiveness at http://www.isc.hbs.edu.
Redefining the goal:

The critical issue is the **value** of health care delivered.

**Improving Value:**
Better health outcomes relative to the cost of achieving them.

• If cost reduction were the real goal, we would need only pain killers and compassion.

• Ironically, the more we’ve focused on costs, the more we’ve driven them up. Cost shifting undermines efficiency and quality.

• E.g., Value of health care for people with diabetes clearly improves with effective early-stage care.
  – Disease progression drives value DOWN with both worse outcomes and higher costs.
Universal coverage IS essential for equity and efficiency.

And, it is not enough.

The key to success is improving the heart of the system: delivery of care and enabling of health.

When value increases significantly, it is possible to deliver far better health outcomes for the money spent. This enables more access and more coverage.

No matter who pays for health care, increasing value is the critical issue.
Creating a High-Value Health Care System

Framing the choice as between a government-run system and a consumer-driven system misses a huge opportunity.

- Consumers cannot fix the dysfunctional structure of the current system.
- Administrative oversight and process specification will not fix the problems.
- We offer a new conception of market-based reform.

→ Cost-based
→ Consumer-driven
→ Organized by specialties
→ Fragmented
→ Poorly Coordinated
→ Culture of Control
→ More Treatment

→ Value-based
→ Results-driven
→ Patient-centered
→ Full Cycle
→ Team Based
→ Culture of Quality
→ More Health
To achieve dramatic and ongoing improvements in value for patients, “set the compass” with 3 guideposts:

1. Patient- and Family-Centered Care
   - Define the goal as increasing value for patients.

2. Results-Driven Improvement
   - Measure results at the level at which value is created for patients.
   - Drive learning!

3. Value-based Restructuring of Delivery
   - Redesign delivery around full care cycles for medical conditions.

A “medical condition” is a set of interrelated medical circumstances that are best cared for in an integrated way.
(So, diabetes with hypertension IS a medical condition; four co-occurring chronic diseases may be “a medical condition.” CABG surgery is a procedure, NOT a condition.)
Improving results for patients increases value rather than dividing value.

- This is a win-win proposition.
- Consider anesthesia improvements.
- Notice, the goal is improving value for patients, not creating consumer-driven care, which often means shifting costs.
- Consider Swedish results improvements.
What should it mean to COMPETE?

Sports and war are the wrong models. Healthy competition is about INCREASING VALUE. This means improving results (outcomes and costs), not shifting costs or winning at someone else’s expense.

Improving results for patients increases value rather than dividing value.

And improving value aligns interests, rather than having participants pursuing different goals.
Widely available information on results drives improvement in outcomes for patients.

Physicians need results measures in order to drive improvement. Risk adjustment is important; perfection is not!

Process specification and compliance do **not** guarantee improved results. (Consider Italian data.)

Both results and process measures are needed to develop insight about what works. The point is to drive learning.

RESULTS are what really matter!
Patient Initial Conditions → Process → (Health) Outcomes

- Evidence-based medicine
- Protocols
- Guidelines

Health Indicators:
- E.g., Hemoglobin A1c levels of diabetic patients

Patient Satisfaction with Care Experience

Patient Reported Health Outcomes
There are Multiple Outcome Measures for every condition.

- **Survival**
- **Degree of recovery or health**
- **Time to recovery or return to normal activities**
- **Disutility of care or treatment process (e.g., complications, pain, adverse effects, diagnosis or treatment errors), or utility of care (e.g., education)**
- **Sustainability of recovery or health over time**
- **Long-term consequences of therapy (e.g., care-induced illnesses)**

**Recovery**

**Experience**

**Sustainability**
Measuring Breast Cancer Outcomes

- Survival rate
  (One year, three year, five year, longer)

- Remission
- Functional status

- Breast conservation surgery outcome

- Time to remission

- Time to achieve functional status

- Degree of recovery / health

- Nosocomial infection
- Nausea
- Vomiting

- Febrile neutropenia
- Limitation of motion
- Depression

- Breast conservation surgery outcome

- Sustainability of recovery or health over time

- Cancer recurrence

- Sustainability of functional status

- Breast conservation surgery outcome

- Long-term consequences of therapy (e.g., care-induced illnesses)

- Incidence of secondary cancers
- Brachial plexopathy

- Premature osteoporosis

- Dysfunction of care or treatment process
  (e.g., treatment-related discomfort, complications, adverse effects, diagnostic errors, treatment errors)
"But, patients don't use outcome information when it IS available!"

The point is … doctors do!

- New York, CABG surgery
- Cystic fibrosis national comparisons
- Minnesota public outcome measures for diabetes

- And… truly informed, involved patients take more personal health responsibility and choose less invasive, less expensive care. (Throwing information on the web is not enough.)

- Unfortunately, health plans tend to use “consumerism” as a renewed call for cost shifting to consumers.
But are results really all that different?

• Consider heart transplants.

• Too often, physicians and patients lack data on RESULTS.

The feasibility of universal outcome measurement at the medical condition level has been conclusively demonstrated.

And using measures is the fastest way to ensure improvement -- not just in results, but in the measures themselves.
Today, most “integrated” care is not a team, but a collection of fragmented services.

The care differs, the judgments on which it is based differs, the outcomes differ... and the clinicians never really know the team’s results, or to what they should compare. They work hard, care a lot, and assume they’ve done very well.

But data show...most have not done “very well.”
Currently, most care is delivered with fragmented processes. (the value chain is a powerful tool for redesign insights)

<table>
<thead>
<tr>
<th>INFORMING &amp; ENGAGING</th>
<th>• Counseling patient and family on the diagnostic process and the diagnosis</th>
<th>• Explaining and supporting patient choices of treatment</th>
<th>• Counseling patient and family on treatment and prognosis</th>
<th>• Counseling patient and family on rehabilitation options and process</th>
<th>• Counseling patient and family on long term risk management</th>
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<tbody>
<tr>
<td>MEASURING (&amp; LEARNING)</td>
<td>• Self exams</td>
<td>• Mammograms</td>
<td>• Ultrasound</td>
<td>• MRI</td>
<td>• Biopsy</td>
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<tr>
<td>ACCESSING</td>
<td>• Office visits</td>
<td>• Mammography lab visits</td>
<td>• Office visits</td>
<td>• Lab visits</td>
<td>• High-risk clinic visits</td>
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<tr>
<td>MONITORING/ PREVENTING</td>
<td>• Medical history</td>
<td>• Monitoring for lumps</td>
<td>• Control of risk factors (obesity, high fat diet)</td>
<td>• Clinical exams</td>
<td>• Genetic screening</td>
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<tr>
<td>DIAGNOSING</td>
<td>• Medical history</td>
<td>• Determining the specific nature of the disease</td>
<td>• Genetic evaluation</td>
<td>• Choosing a treatment plan</td>
<td>• Medical counseling</td>
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<tr>
<td>PREPARING</td>
<td>• Medical counseling</td>
<td>• Surgery prep (anesthetic risk assessment, EKG)</td>
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<td>RECOVERING/ REHABING</td>
<td>• In-hospital and outpatient wound healing</td>
<td>• Psychological counseling</td>
<td>• Treatment of side effects (skin damage, neurotoxic, cardiac, nausea, lymphodema and chronic fatigue)</td>
<td>• Physical therapy</td>
<td>• Periodic mammography</td>
</tr>
<tr>
<td>MONITORING/ MANAGING</td>
<td>• Periodic mammography</td>
<td>• Other imaging</td>
<td>• Follow-up clinical exams for next 2 years</td>
<td>• Treatment for any continued side effects</td>
<td>• Physical therapy</td>
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Today, EVERY patient requires special effort to coordinate care.
Patient value needs to be the beacon of inspiration for organizational innovation.

Old model: Organized by specialty and by discrete, fragmented services

Imaging Unit
Outpatient Physical Therapist
Outpatient Neurology
Primary Care Physician
Outpatient Psychologist
Inpatient Treatment and Detox

New model: integrated practice unit

Imaging Unit
West German Headache Center
Primary Care Physicians
Neurologists
Psychologists
Physical Therapists
Day Hospital
Network Neurologists
Essen Univ. Hospital Inpatient Unit

Migraine care in Germany:
Integration of care simplifies coordination for patients and patients have far fewer days of disabling pain.

Source: KKH, Westdeutsches Kopfschmerzzentrum
Integrated Practice Units drive improvement by driving learning at the medical condition level.

This is not hyper-specialization. It is not focused factories. It is not archipelagos. Broad expertise develops over the care cycle for the patient. Consider cystic fibrosis.
Patients with Multiple Medial Conditions
Coordinating Care Across IPUs

- The primary organization of care delivery should be around the integration required for every patient.
- IPUs will greatly simplify the coordination of care for patients with multiple medical conditions.
- The patient with multiple conditions will be better off in an IPU model.

Integrated Diabetes Unit
Integrated Cardiac Care Unit
Integrated Breast Cancer Unit
Integrated Osteoarthritis Unit

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“But …costs are rising worldwide, can we afford to focus on improving results and value?”

Yes. The best way to contain costs is to drive improvements in quality.

Health care IS different.

- Better health is the goal, not more treatment.
- And good health is inherently less expensive than poor health.
- We can afford to pursue better health for all… indeed we can’t afford NOT to.
Health care IS different.

Even more than in other sectors, better quality inherently reduces costs

- Fewer mistakes and repeats
- Faster recovery
- Less disability
- Less invasive treatment methods
- Less long-term care
- Disease management
- Prevention of disease or progression
- Right diagnoses
- Treatment earlier in causal chain
- Right treatment to the right patients

Living in good health is less expensive than living in poor health.

Much delivered care does not meet best practices.

Process improvement, "waste reduction," and safety improvements can drive very large gains, but streamlining the pieces of a fragmented system and patching the fragments together have inherent limits.

We can achieve even more dramatic improvements in value by redefining care delivery across the care cycles for medical conditions.
Information technology will enable restructuring of care delivery and measuring results, but is not a solution by itself.

- Common data definitions
- Interoperability standards
- Patient-centered database
- Cover the full care cycle, including referring entities

Reimbursement should be aligned with value and reward innovation.

- Reimbursement for care cycles, not discrete treatments or services
- Reimbursement for prevention and screening, not just treatment
- Reimbursement for overall management of chronic condition
- Most DRG systems are too narrow

Health plans, employers & clinicians will benefit by changing reimbursement -- share the gains of value improvement!
There is no need to wait.

We **CAN** create health care systems that drive improvements in value.

Focusing on health results aligns interests.

Imagine…

health care systems that are truly about **health and care**.