

Value-Based Health Care Delivery

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Harvard Business School

Introduction to Social Medicine
November 5, 2009

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 Health Care Delivery

- Universal coverage and access to care are **essential, but not enough**
- The core issue in health care is the **value of health care delivered**

Value: Patient health outcomes per dollar spent



- How to design a health care system that **dramatically improves patient value**
 - Ownership of entities is secondary (e.g. non-profit vs. for profit vs. government)
- How to construct a **dynamic system** that keeps rapidly improving

Creating a Value-Based Health Care System

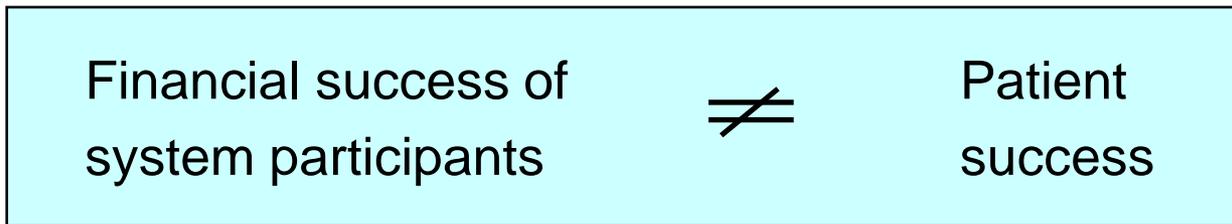
- Significant improvement in value will require **fundamental restructuring of health care delivery**, not incremental improvements

Today, 21st century medical technology is often delivered with 19th century organization structures, management practices, and pricing models

- Process improvements, lean production concepts, safety initiatives, care pathways, disease management and other **overlays** to the current structure are beneficial but not sufficient
- Consumers **cannot fix the dysfunctional structure** of the current system

Harnessing Competition on Value

- **Competition for patients/subscribers** is a powerful force to encourage restructuring of care and continuous improvement in value
- Today's competition in health care **is not aligned with value**



- Creating positive-sum **competition on value** is a central challenge in health care reform in every country

Principles of Value-Based Health Care Delivery

1. Set the goal as **value for patients**, not access, equity, volume, convenience, or cost containment

$$\text{Value} = \frac{\text{Health outcomes}}{\text{Costs of delivering the outcomes}}$$



- Outcomes are the **full set of patient health outcomes** over the care cycle
- Costs are the **total costs of the care for the patient's condition**, not just the costs borne by a single provider or costs for a portion of care

Principles of Value-Based Health Care Delivery

1. Set the goal as **value for patients**, not containing costs
2. **Quality improvement** is the key driver of cost containment and value improvement, where quality is **health outcomes**

- Prevention
- Early detection
- Right diagnosis
- Early and timely treatment
- Treatment earlier in the causal chain of disease
- Right treatment to the right patient
- Rapid cycle time of diagnosis and care
- Less invasive treatment methods
- Fewer complications
- Fewer mistakes and repeats in treatment
- Faster recovery
- More complete recovery
- Less disability
- Fewer relapses or acute episodes
- Slower disease progression
- Less need for long term care
- Less care induced illness

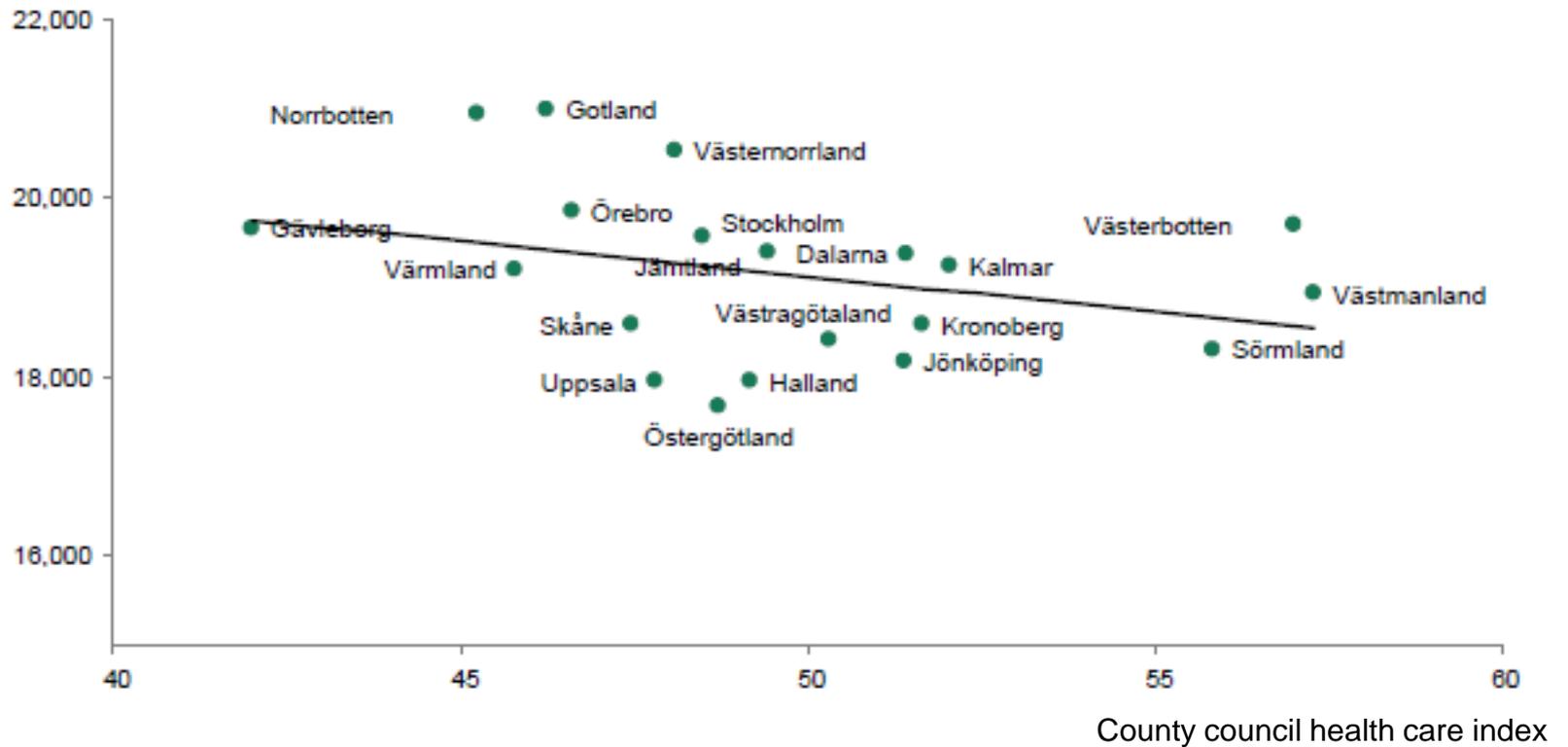


- **Better health** is the goal, not more treatment
- Better health is **inherently less expensive** than poor health

Cost versus Quality Sweden

Health Care Spending by County 2008

Health care cost/capita (SEK)

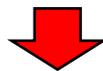


Note: Cost including: primary care, specialized somatic care, specialized psychiatry care, other medical care, political health- and medical care activities, other subsidies (e.g. drugs)
 Source: Öppna jämförelser, Socialstyrelsen 2008; Sjukvårdsdata i fokus 2008; BCG analysis

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3. Care delivery should be organized around the patient's **medical condition** over the **full cycle of care**

- A medical condition is **an interrelated set of patient medical circumstances best addressed in an integrated way**
 - Defined from the **patient's** perspective
 - **Including** the most common co-occurring conditions and complications
 - Involving **multiple** specialties and services

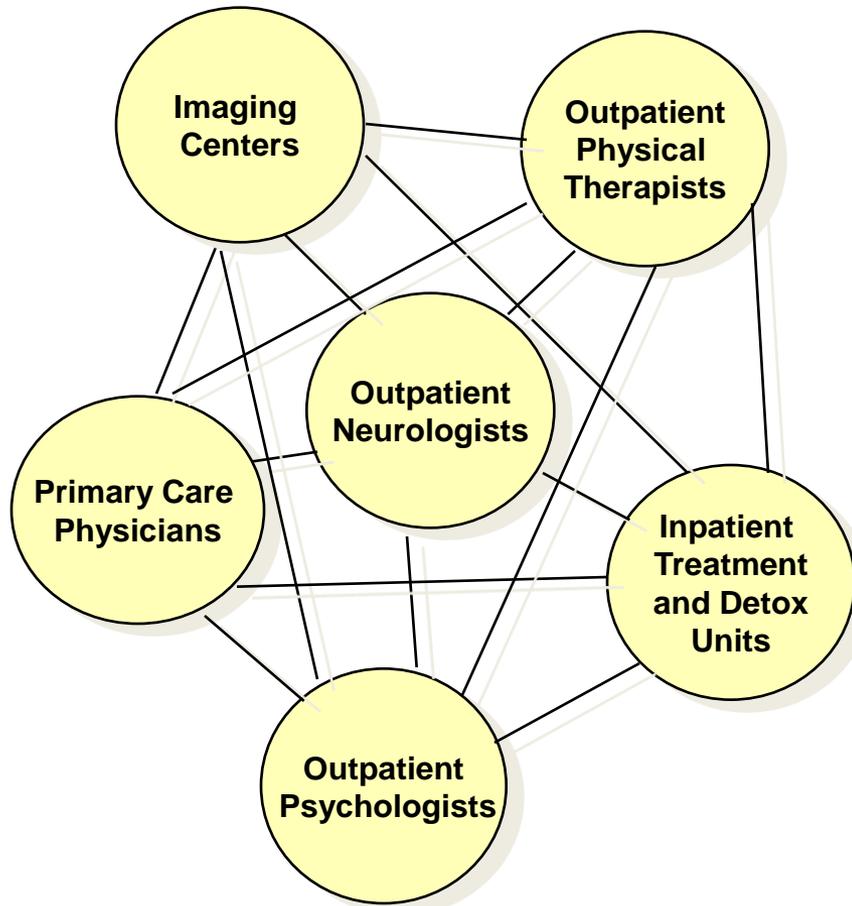


- The patient's medical condition is the **unit of value creation** in health care delivery

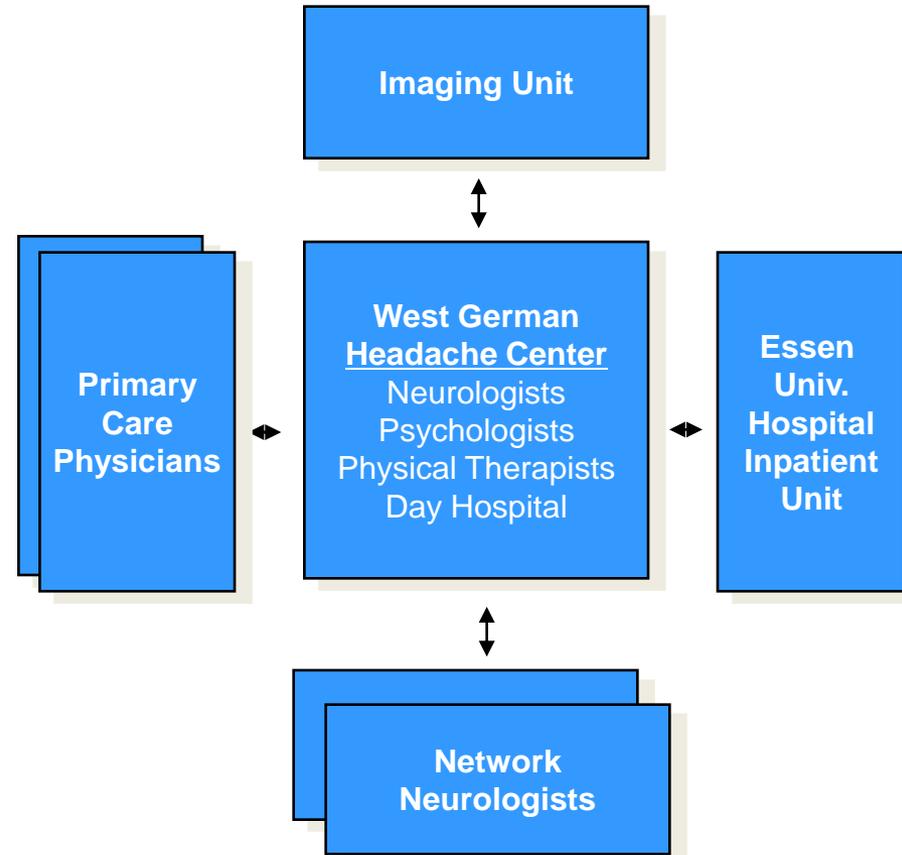
Restructuring Care Delivery

Migraine Care in Germany

Existing Model:
Organize by Specialty and Discrete Services



New Model:
Organize into Integrated Practice Units (IPUs)



Source: Porter, Michael E., Clemens Guth, and Elisa Dannemiller, *The West German Headache Center: Integrated Migraine Care*, Harvard Business School Case 9-707-559, September 13, 2007

Integrating Across the Cycle of Care

Breast Cancer

INFORMING AND ENGAGING	<ul style="list-style-type: none"> ▪ Advice on self screening ▪ Consultations on risk factors 	<ul style="list-style-type: none"> ▪ Counseling patient and family on the diagnostic process and the diagnosis 	<ul style="list-style-type: none"> ▪ Explaining patient treatment options/shared decision making ▪ Patient and family psychological counseling 	<ul style="list-style-type: none"> ▪ Counseling on the treatment process ▪ Education on managing side effects and avoiding complications of treatment ▪ Achieving compliance 	<ul style="list-style-type: none"> ▪ Counseling on rehabilitation options, process ▪ Achieving compliance ▪ Psychological counseling 	<ul style="list-style-type: none"> ▪ Counseling on long term risk management ▪ Achieving Compliance
	<ul style="list-style-type: none"> ▪ Self exams ▪ Mammograms 	<ul style="list-style-type: none"> ▪ Mammograms ▪ Ultrasound ▪ MRI ▪ Labs (CBC, Blood chems, etc.) ▪ Biopsy ▪ BRACA 1, 2... ▪ CT ▪ Bone Scans 	<ul style="list-style-type: none"> ▪ Labs 	<ul style="list-style-type: none"> ▪ Procedure-specific measurements 	<ul style="list-style-type: none"> ▪ Range of movement ▪ Side effects measurement 	<ul style="list-style-type: none"> ▪ MRI, CT ▪ Recurring mammograms (every six months for the first 3 years)
MEASURING	<ul style="list-style-type: none"> ▪ Office visits ▪ Mammography lab visits 	<ul style="list-style-type: none"> ▪ Office visits 	<ul style="list-style-type: none"> ▪ Office visits 	<ul style="list-style-type: none"> ▪ Hospital stays 	<ul style="list-style-type: none"> ▪ Office visits 	<ul style="list-style-type: none"> ▪ Office visits
		<ul style="list-style-type: none"> ▪ Lab visits 	<ul style="list-style-type: none"> ▪ Hospital visits ▪ Lab visits 	<ul style="list-style-type: none"> ▪ Visits to outpatient radiation or chemotherapy units ▪ Pharmacy 	<ul style="list-style-type: none"> ▪ Rehabilitation facility visits ▪ Pharmacy 	<ul style="list-style-type: none"> ▪ Lab visits ▪ Mammographic labs and imaging center visits
		<ul style="list-style-type: none"> ▪ High risk clinic visits 				
	MONITORING/PREVENTING	DIAGNOSING	PREPARING	INTERVENING	RECOVERING/REHABING	MONITORING/MANAGING
	<ul style="list-style-type: none"> ▪ Medical history ▪ Control of risk factors (obesity, high fat diet) ▪ Genetic screening ▪ Clinical exams ▪ Monitoring for lumps 	<ul style="list-style-type: none"> ▪ Medical history ▪ Determining the specific nature of the disease (mammograms, pathology, biopsy results) ▪ Genetic evaluation ▪ Labs 	<ul style="list-style-type: none"> ▪ Choosing a treatment plan ▪ Surgery prep (anesthetic risk assessment, EKG) ▪ Plastic or onco-plastic surgery evaluation ▪ Neo-adjuvant chemotherapy 	<ul style="list-style-type: none"> ▪ Surgery (breast preservation or mastectomy, oncoplastic alternative) ▪ Adjuvant therapies (hormonal medication, radiation, and/or chemotherapy) 	<ul style="list-style-type: none"> ▪ In-hospital and outpatient wound healing ▪ Treatment of side effects (e.g. skin damage, cardiac complications, nausea, lymphodema and chronic fatigue) ▪ Physical therapy 	<ul style="list-style-type: none"> ▪ Periodic mammography ▪ Other imaging ▪ Follow-up clinical exams ▪ Treatment for any continued or later onset side effects or complications

Breast Cancer Specialist
 Other Provider Entities

What is Integrated Care?

Key Elements of Integrated Care:

- Care for the full care cycle of a **medical condition**
- Encompassing **inpatient/outpatient/rehabilitation** care
- By **dedicated teams** focused around the patient
- **Co-located** in **dedicated facilities**
- In which providers are all part of the **same organizational entity**
- Utilizing a **single administrative and scheduling structure**
- With **joint accountability** for outcomes and overall costs



Integrated care is **not** the same as:

- Co-location
- Care delivered by the same organization
- A multispecialty group practice
- Clinical Pathways
- Freestanding focused factories
- An Institute or Center
- A Center of Excellence
- A health plan/provider system (e.g. Kaiser Permanente)
- Medical home
- Accountable Care Organization

IPUs and Value

Outcomes

Cost

- **Better decisions** in terms of diagnosis and treatment
 - Specialized experience and expertise
 - Better coordination/peer review
 - Better integration of co-occurrences
- **Better execution** of treatment
 - Specialized experience and expertise
 - Tailored facilities
 - Seamless management of common co-occurrences
- **Faster** cycle time
- Improved **patient compliance and engagement** with care
- Full range of **support services** needed to achieve success for the patient (e.g. nutrition, rehabilitation, counseling, psychological support)
- Vastly greater patient **convenience**

- **Greater provider efficiency**
- **Better utilization of facilities**
- **Streamlined administrative costs**

Integrated Models of Primary Care

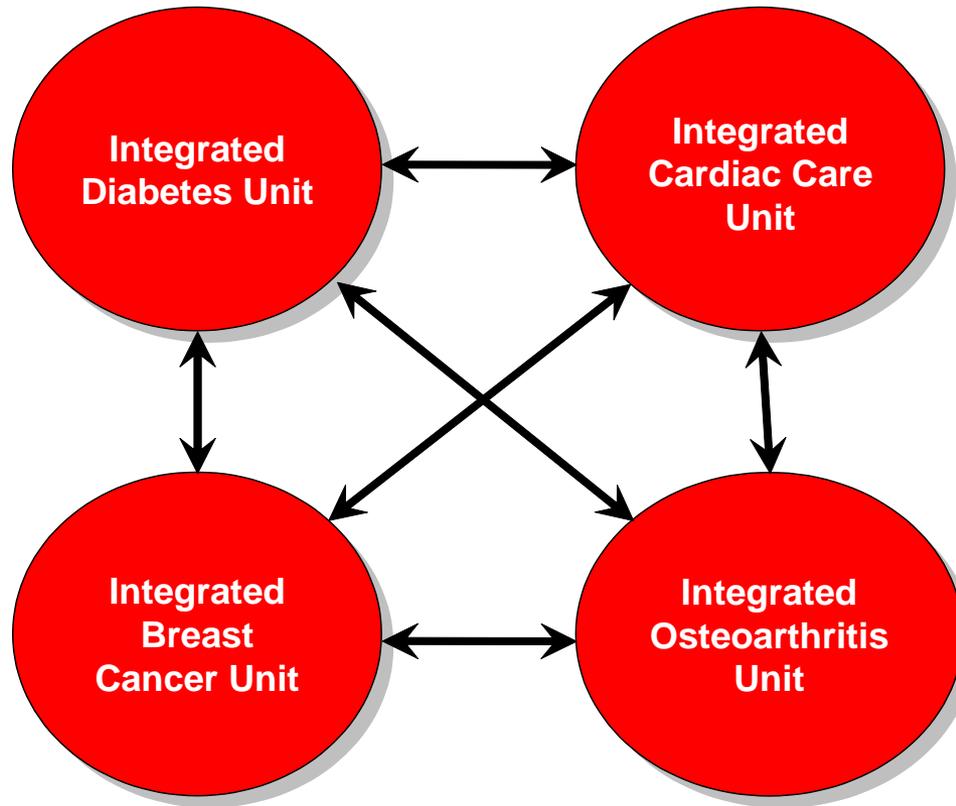
- Today's primary care is **fragmented** and attempts to address **overly broad** needs with limited resources



- Redefine primary care as prevention, screening, diagnosis, wellness and health maintenance **service bundles**
- Design primary care services around **specific patient populations** (e.g. healthy adults, frail elderly, type II diabetics) rather than attempt to be all things to all patients
- Provide primary care service bundles using **multidisciplinary teams, support staff, and dedicated facilities**
- Deliver primary care at the **workplace, community organizations, and other settings** that offer regular patient contact and the ability to develop a group culture of wellness
- Create **formal partnerships** between primary care organizations and specialty IPUs

Coordinating Care Across IPUs

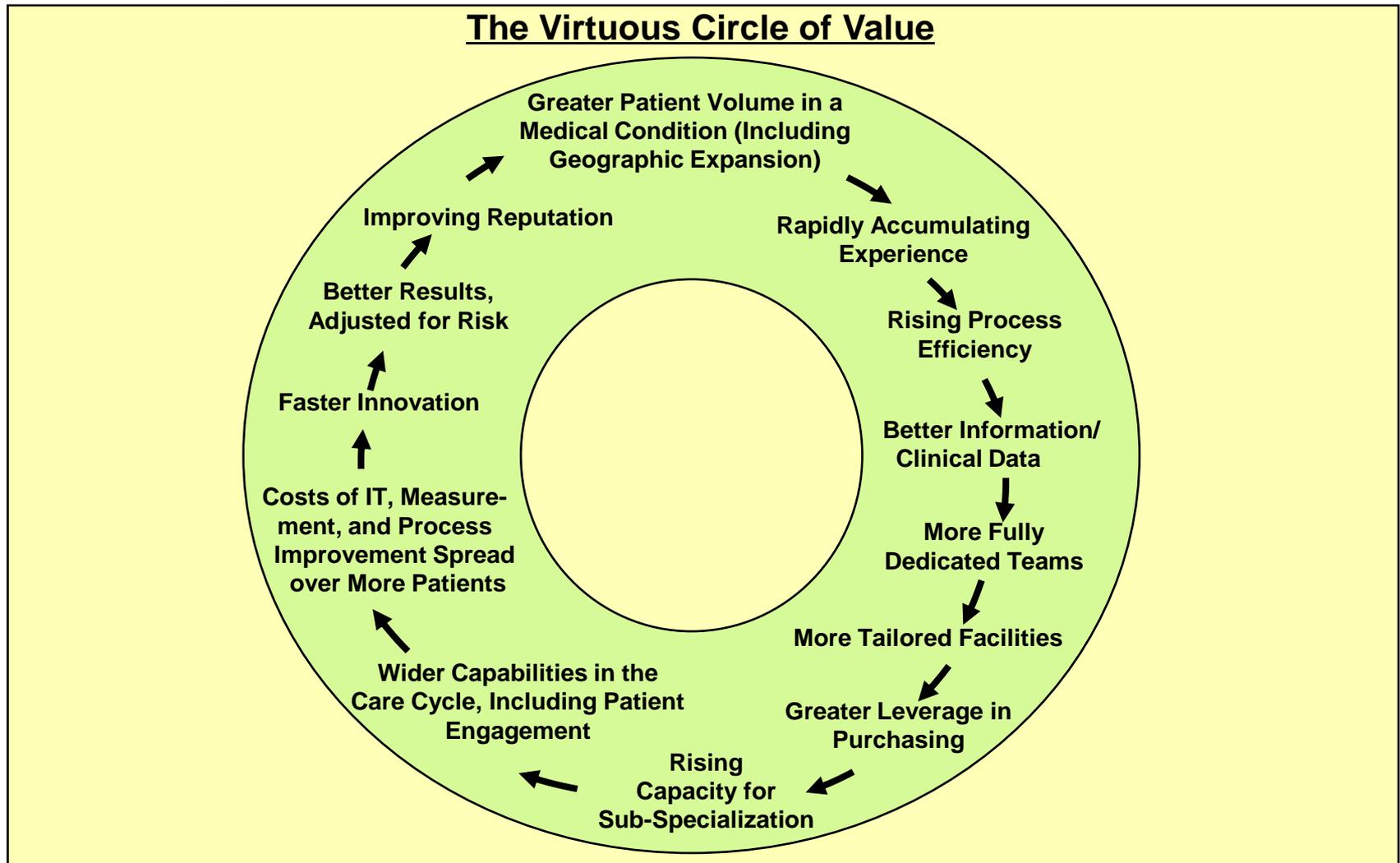
Patients with Multiple Medical Conditions



- The primary organizational structure for care delivery should be around the forms of integration required for **every patient**
 - The current system is organized around the **exception**, not the rule
- **Overlay mechanisms** are then utilized to manage coordination across IPUS
- The IPU model will **greatly simplify** coordination of care for patients with multiple medical conditions

Principles of Value-Based Health Care Delivery

4. Provider **experience**, **scale**, and **learning** at the medical condition level drive value improvement



- 
- Volume and experience will have an **even greater impact** on value in an IPU structure
 - The virtuous circle **extends across geography in integrated care organizations**

Fragmentation of Hospital Services

Sweden

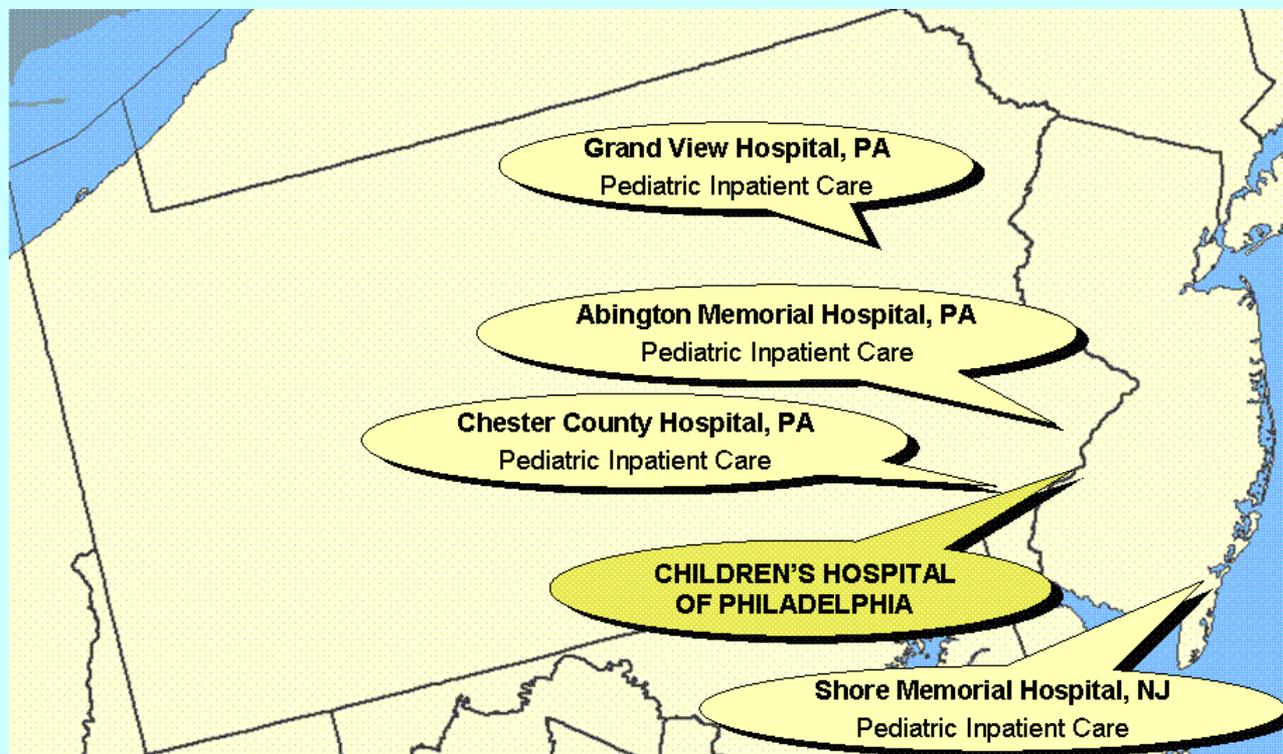
DRG	Number of admitting providers	Average percent of total national admissions	Average admissions/ provider/ year	Average admissions/ provider/ week
Knee Procedure	68	1.5%	55	1
Diabetes age > 35	80	1.3%	96	2
Kidney failure	80	1.3%	97	1
Multiple sclerosis and cerebellar ataxia	78	1.3%	28	1
Inflammatory bowel disease	73	1.4%	66	1
Implantation of cardiac pacemaker	51	2.0%	124	2
Splenectomy age > 17	37	2.6%	3	<1
Cleft lip & palate repair	7	14.2%	83	2
Heart transplant	6	16.6%	12	<1

Source: Compiled from The National Board of Health and Welfare Statistical Databases – DRG Statistics, Accessed April 2, 2009.

Principles of Value-Based Health Care Delivery

5. **Integrate care across facilities** and **geography**, rather than duplicating services in stand-alone units

Children's Hospital of Philadelphia (CHOP) Affiliations

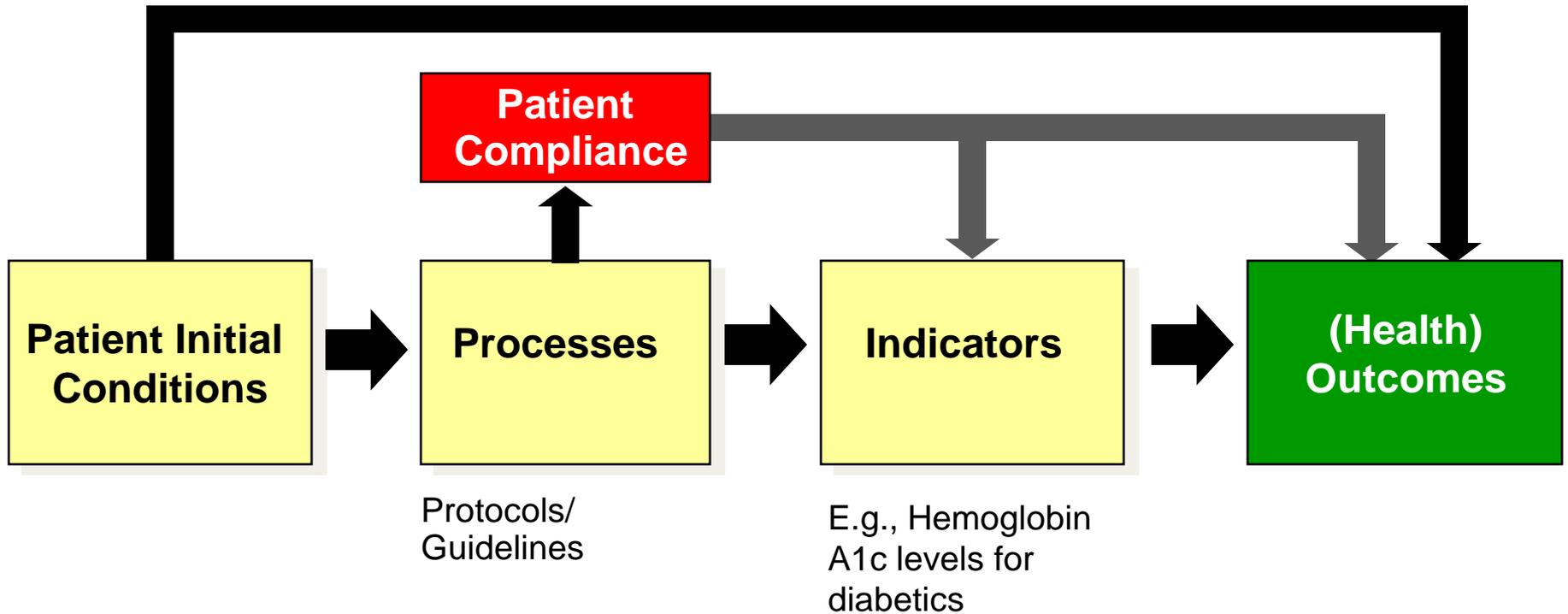


- Deliver services in the **appropriate** facility, not every facility
- Excellent providers can manage care delivery across **multiple geographic areas**

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3. Care delivery should be organized around the patient's **medical condition** over the **full cycle of care**
4. Provider **experience**, **scale**, and **learning** at the medical condition level drive value improvement
5. **Integrate care across facilities** and **geography**, rather than duplicating services in stand-alone units
6. Measure and report **outcomes** and **costs** for every provider, every medical condition, and every patient

Measuring Value in Health Care



Principles of Value-Based Health Care Delivery

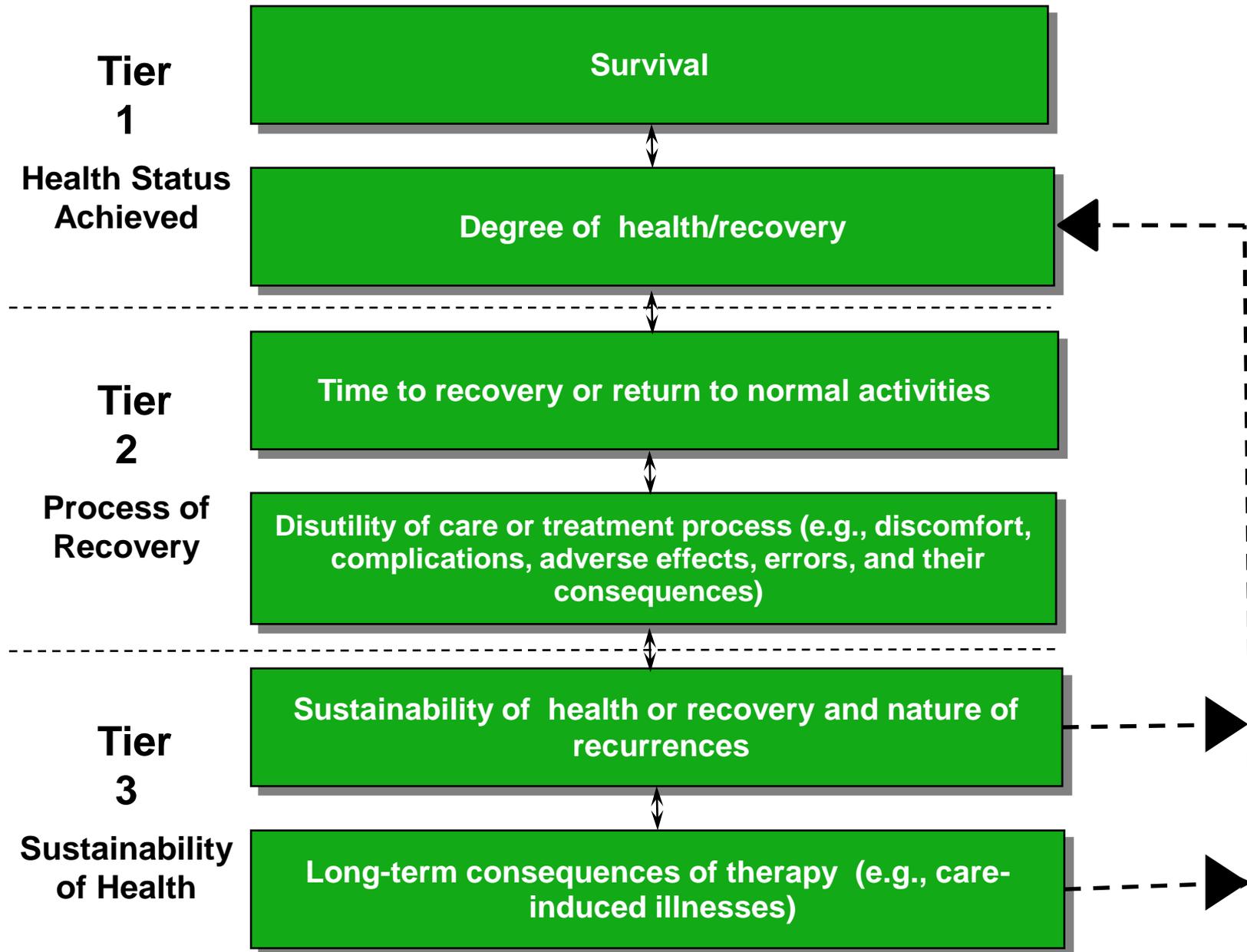
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- Results must be measured at **the level at which value is created** not traditional organizational units

- Outcomes should be measured for **each medical condition** over the **cycle of care**
 - Not for interventions or short episodes
 - Not separately for types of service (e.g. inpatient, outpatient, tests, rehabilitation)
 - Not for practices, departments, clinics, or entire hospitals

The Outcome Measures Hierarchy



The Outcome Measures Hierarchy

Breast Cancer

Survival

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

Degree of recovery / health

- **Degree of remission**
- **Functional status**
- **Breast conservation outcome**

Time to recovery or return to normal activities

- **Time to remission**
- **Time to achieve functional status**

**Disutility of care or treatment process
(e.g., treatment-related discomfort, complications, adverse effects, diagnostic errors, treatment errors)**

- **Nosocomial infection**
- **Nausea**
- **Vomiting**
- **Febrile neutropenia**
- **Limitation of motion**
- **Suspension of therapy**
- **Failed therapies**
- **Depression**

Sustainability of recovery or health over time

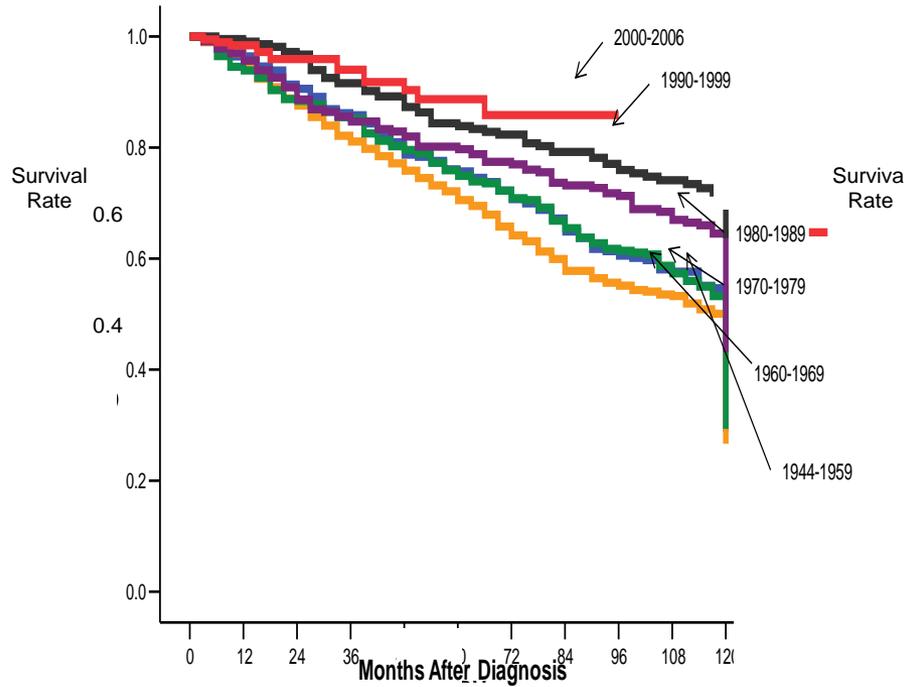
- **Cancer recurrence**
- **Sustainability of functional status**

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

- **Incidence of secondary cancers**
- **Brachial plexopathy**
- **Fertility/pregnancy complications**
- **Premature osteoporosis**

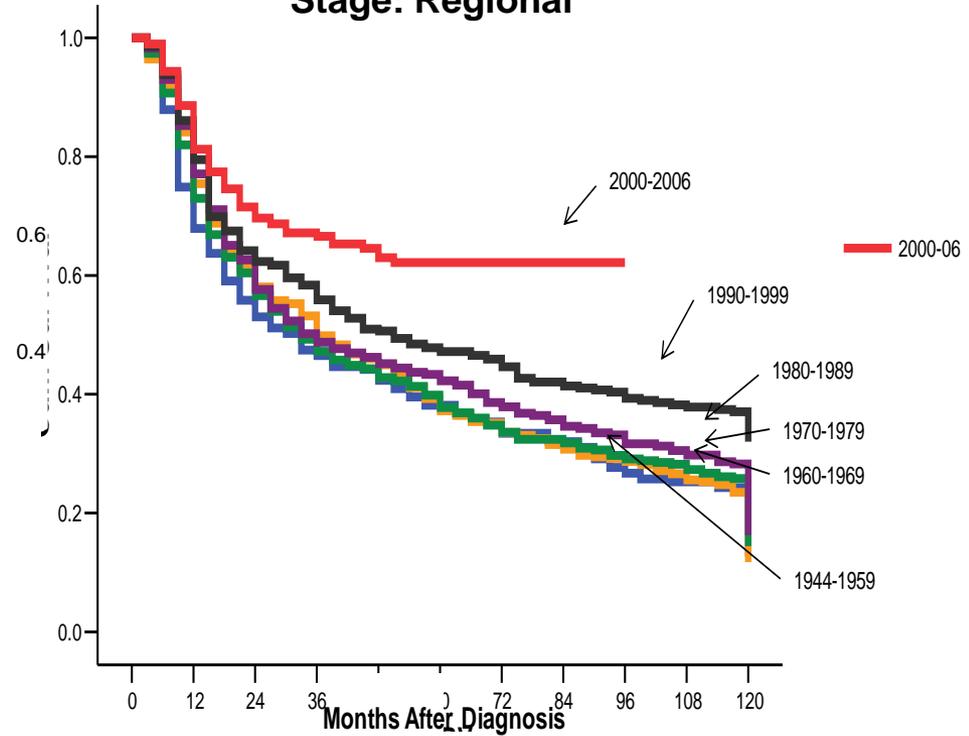
MD Anderson Oral Cavity Cancer Survival by Registration Year

Stage: Local



staer = REGIONAL

Stage: Regional



Source: MD Anderson Cancer Center

Principles of Value-Based Health Care Delivery

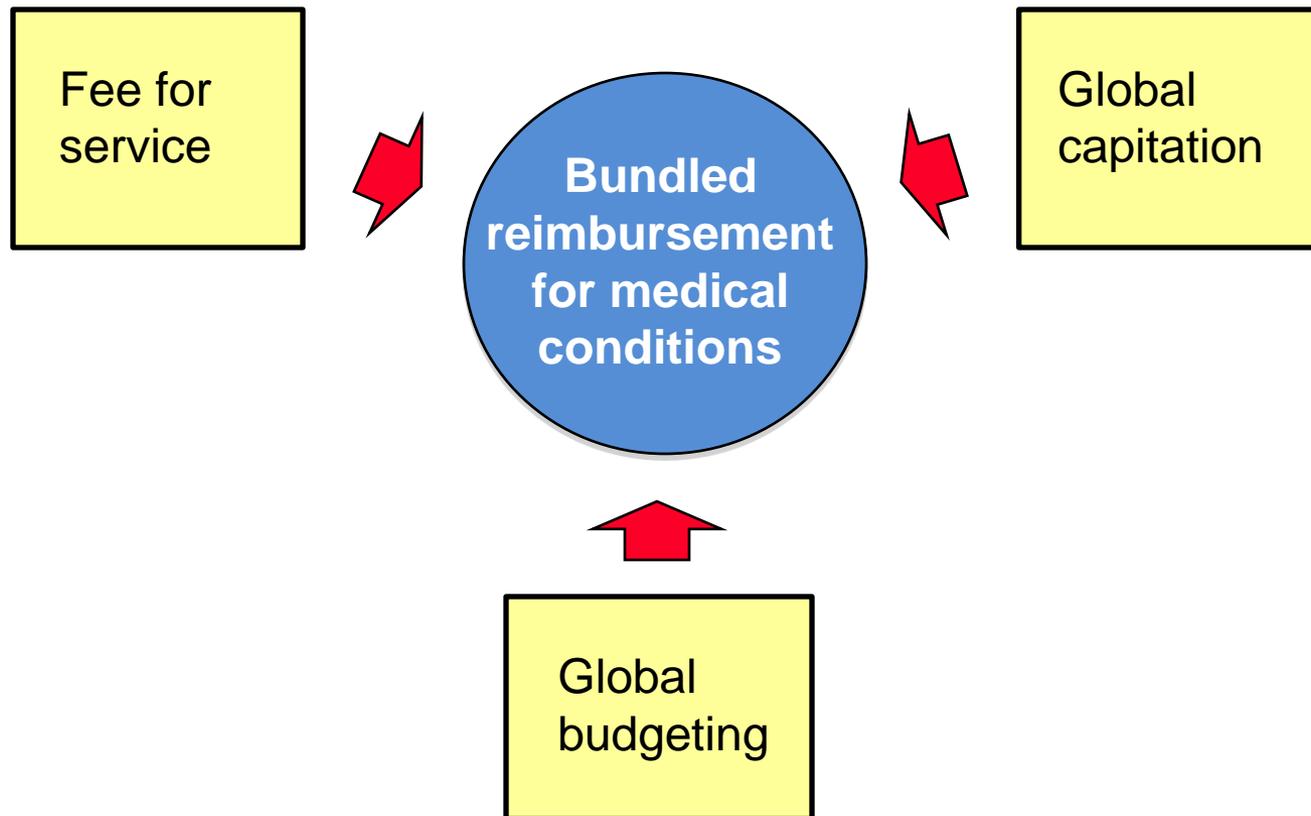
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5. **Integrate care across facilities** and **geography**, rather than duplicating services in stand-alone units
6. Measure and report **outcomes** and **costs** for every provider, every medical condition, and every patient
7. **Align reimbursement** with value and reward innovation

- **Bundled reimbursement** for **cycles of care** for medical conditions, not payment for discrete services or short episodes
- Time-base bundled reimbursement for **managing chronic conditions**
- Reimbursement for defined **prevention, screening, wellness/health maintenance** service bundles



- **Providers** and **health plans** should be proactive in driving new reimbursement models, not wait for government

Value-Based Reimbursement



- Bundled reimbursement for care cycles motivates **value improvement, care cycle optimization**, and **spending to save**
- **Outcome measurement and reporting** at the medical condition level is needed for any reimbursement system to ultimately succeed

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7. **Align reimbursement** with value and reward innovation
8. Utilize information technology to enable **restructuring of care delivery** and **measuring results**, rather than treating it as a solution itself

- Common data definitions
- “Structured” data vs. free text
- Data encompasses the full care cycle, including referring entities
- Interoperability standards enabling communication among systems
- Structure for combining all types of data (e.g. notes, images) for each patient over time
- Templates for medical conditions to enhance the user interface
- Accessible by, and allowing communication among, all involved parties, including patients
- Architecture that allows easy extraction of outcome measures

Value-Based Health Care Delivery

The Strategic Agenda for Providers

1. Integrated Practice Units

- Including primary care

2. Outcomes and Cost Measurement

3. New Reimbursement Models

- Engage health plans but also seek direct relationships with employers/employer groups

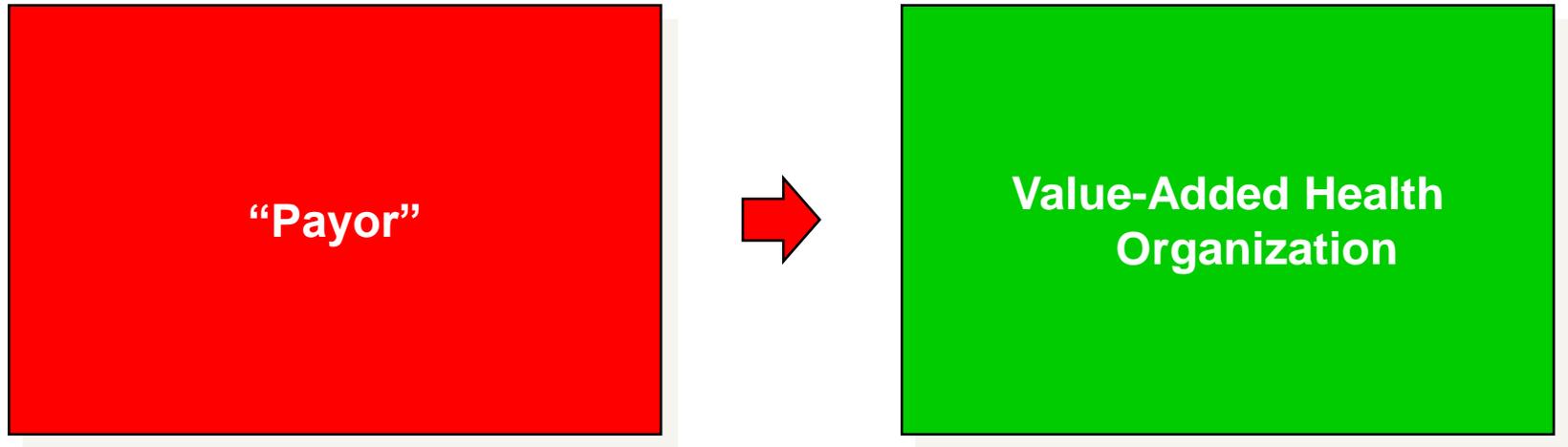
4. Provider System Integration

- **Rationalize service lines/ IPU**s across facilities to improve volume, avoid duplication, and enable excellence
- Offer specific services at the **appropriate facility**
 - **e.g. acuity level, cost level, benefits of convenience**
- Clinically integrate care **across facilities** within an IPU structure
 - The **care delivery organization should span facilities**
- Formally link **primary care** units to specialty IPUs

5. Growth Across Geography

6. Enabling Information Technology Platform

Value-Based Healthcare Delivery: Implications for Health Plans



Implications for Government

Shift insurance market competition to value and enable universal coverage:

- Shift insurance market competition by ending discrimination based on pre-existing conditions and re-pricing upon illness
- Build upon the current **employer based system**
- Create a viable insurance option for **individuals and small groups** through large statewide and multistate **insurance pools**, coupled with a **reinsurance system** for high cost individuals
- Establish **income-based subsidies** on a sliding scale for lower income individuals
- Once viable insurance options are established, **mandate the purchase of health insurance** for all Americans
- Give employers a choice of providing insurance or a payroll tax based on the proportion of employees requiring public assistance

Implications for Government (Continued)

Restructure Delivery

- Establish universal and mandatory measurement and reporting of provider **health outcomes**
 - **Experience** reporting as an interim step
- Shift reimbursement systems to **bundled payment for cycles of care** instead of payments for discrete treatments or services
- Encourage **restructuring of health care delivery** around the integrated care for medical conditions
 - Eliminate obstacles such as Stark Laws, Corporate Practice of Medicine
 - Minimum volume standards as an interim step
- Create new integrated **prevention, wellness, screening** and **health maintenance** service bundles for defined patient groups
- Mandate **EMR adoption** that enables integrated care and supports outcome measurement
 - Software as a service model for smaller providers
 - National standards for data, communication, and aggregation
- Encourage **responsibility of individuals** for their health and health care
- **Open up value-based competition** for patients within and across state boundaries

The Developed World and Resource-Poor Settings Suffer from Similar Delivery Problems

Current Model

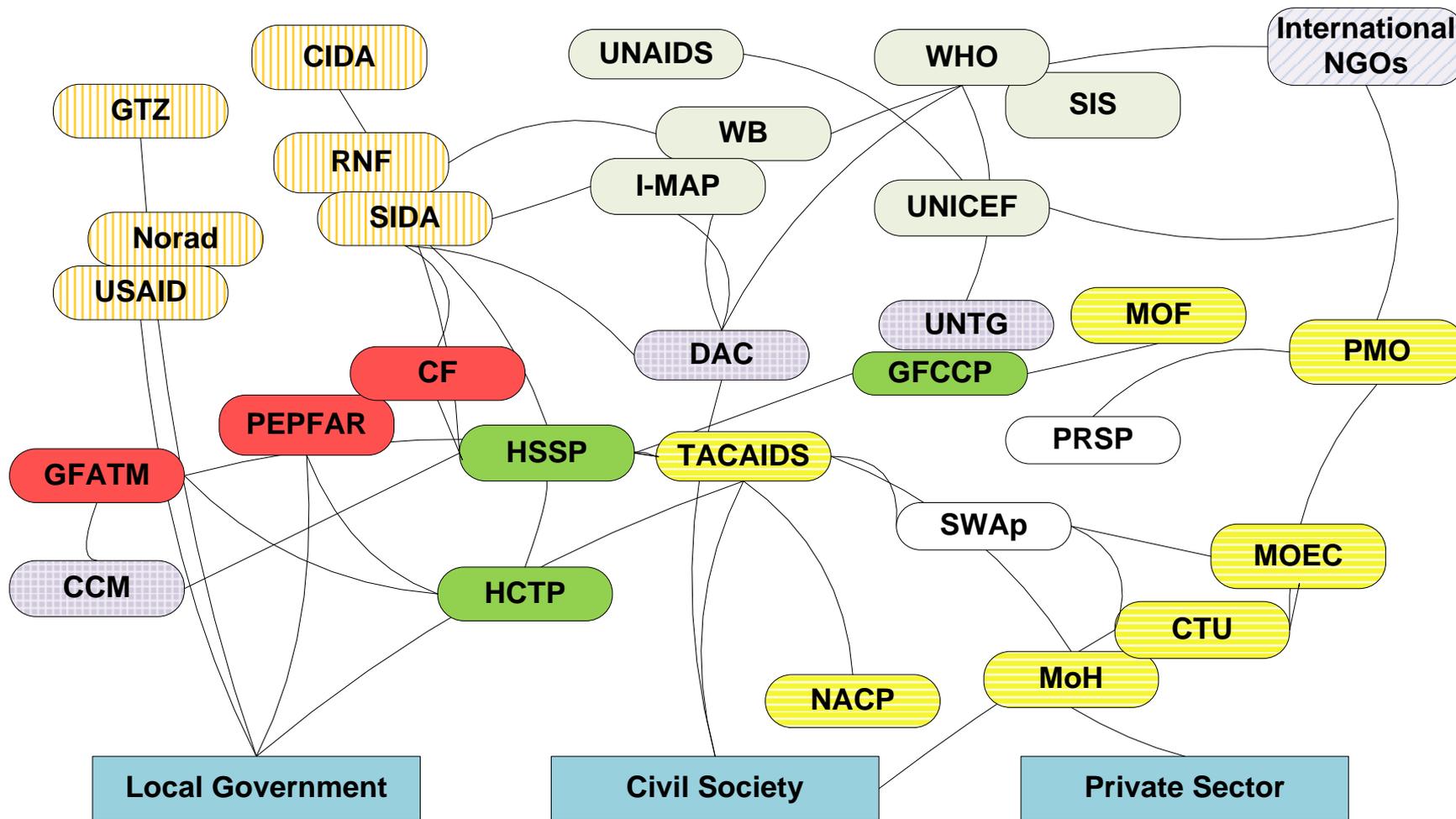
- The product is **treatment**
- Measure **volume** of services (# tests, treatments)
- Focus on overall facilities, **specialties** or **types** of practitioners
- Discrete **interventions**
- **Individual** diseases or overall facilities
- **Fragmented, localized,** pilots. programs and entities



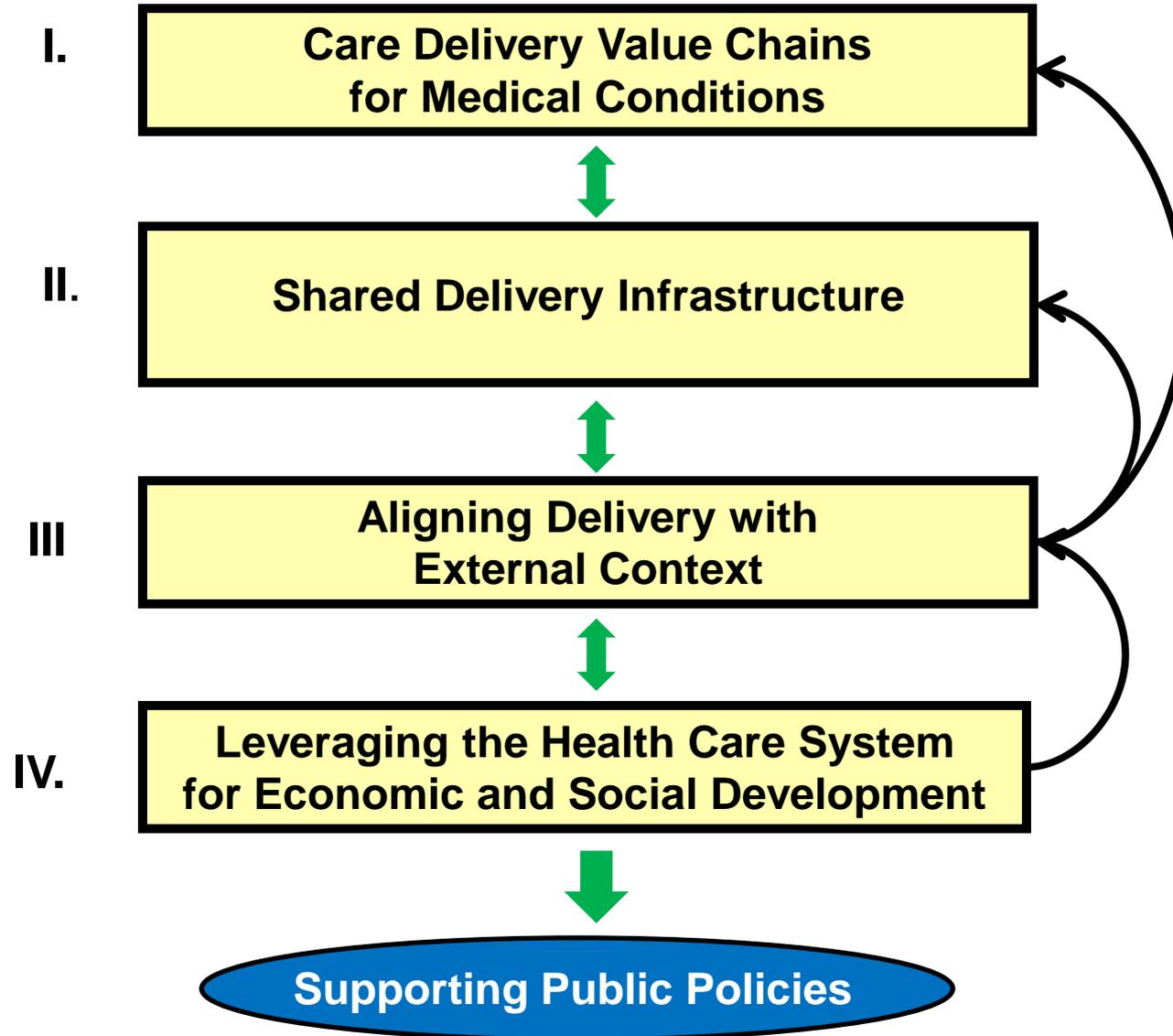
New Model

- The product is **health**
- Measure **value** of services (health outcomes per unit of cost)
- **Coordinated** and **integrated** care delivery
- **Care cycles**
- Sets of prevalent **co-occurrences**
- **Integrated** care delivery systems

Relationships Between Various Stakeholders in Tanzania



A Framework for Global Health Delivery



The Care Delivery Value Chain

HIV/AIDS

INFORMING/ ENGAGING	<ul style="list-style-type: none"> Prevention counseling on modes of transmission and condom use 	<ul style="list-style-type: none"> Explanation of diagnosis and the implications Explaining the course of HIV and the prognosis 	<ul style="list-style-type: none"> Explanation of the approach to forestalling progression 	<ul style="list-style-type: none"> Explanation of Medication Instructions and Side-Effects 	<ul style="list-style-type: none"> Counseling about adherence; understanding factors for non-adherence 	<ul style="list-style-type: none"> Explanation of the co-morbid diagnoses and the implications End-of Life Counseling
MEASURING	<ul style="list-style-type: none"> HIV testing Screen for sexually transmitted infections Collect baseline demographics 	<ul style="list-style-type: none"> HIV testing for others at risk Clinical examination CD4+ count and other labs Testing for common co-morbidities such as tuberculosis and sexually transmitted diseases Pregnancy testing 	<ul style="list-style-type: none"> CD4+ Count Monitoring (Continuous Staging) Regular Primary Care Assessment HIV Testing for Others at Risk Laboratory Evaluation for Medication Initiation 	<ul style="list-style-type: none"> HIV Staging and Medication Response Highly Frequency Primary Care Assessment Assessing/Managing Complications of Therapy HIV testing for others at risk (bi-annually) Laboratory Evaluation 	<ul style="list-style-type: none"> HIV Staging and Medication Response Regular Primary Care Assessment Laboratory Evaluation 	<ul style="list-style-type: none"> HIV Staging and Medication Response Regular Primary Care Assessment Laboratory Evaluation
ACCESSING	<ul style="list-style-type: none"> Testing centers High risk settings Primary Care Clinics 	<ul style="list-style-type: none"> Primary Care Clinics On-sight laboratories at Primary Care Clinics Testing Centers 	<ul style="list-style-type: none"> Primary Care Clinics Laboratories (on-site at primary clinic) Pharmacy Food Centers Community Health Workers/ Home Visits Support Groups 	<ul style="list-style-type: none"> Primary Care Clinics Laboratories (on-site at primary clinic) Pharmacy Community Health Workers/ Home Visits Support Groups 	<ul style="list-style-type: none"> Primary Care Clinics Laboratories (on-site at primary clinic) Pharmacy Community Health Workers/ Home Visits Support Groups 	<ul style="list-style-type: none"> HIV Staging and Medication Response Regular Primary Care Assessment Laboratory Evaluation Primary Care Clinics Pharmacy Laboratories (on-site at primary clinic) Community Health Workers/Home Visits Hospitals & Hospice Facilities Support Groups Food Centers
	SCREENING/PREVENTING	DIAGNOSING/STAGING	DELAYING PROGRESSION	INITIATING ANTIRETROVIRAL THERAPY	ONGOING DISEASE MANAGEMENT	MANAGEMENT OF CLINICAL DETERIORATION
	<ul style="list-style-type: none"> Connecting patients with primary care system Identifying high risk individuals Testing at-risk individuals Promoting appropriate risk reduction strategies Modifying behavioral risk factors Creating a medical record 	<ul style="list-style-type: none"> Formal diagnosis and staging Determine method of transmission and others at potential risk Identify others at risk Screen for TB, syphilis, and other sexually transmitted diseases Pregnancy testing and contraceptive counseling Create management plan, including scheduling of follow-up visits Formulate a treatment plan 	<ul style="list-style-type: none"> Initiate therapies that can delay onset, including vitamins and food Treat co-morbidities that affect progression of disease, especially tuberculosis Improve patient awareness of disease progression, prognosis, and transmission Connect patient to care team, including community health work 	<ul style="list-style-type: none"> Initiate comprehensive anti-retroviral therapy and assess medication readiness Prepare patient for disease progression and side-effects of associated treatment Manage secondary infections and associated illnesses 	<ul style="list-style-type: none"> Managing effects of associated illnesses Managing side effects of treatment Determine supporting nutritional modifications Preparing patient for end-of-life management Primary care and health maintenance 	<ul style="list-style-type: none"> Identifying clinical and laboratory deterioration Initiating second-line, third-line drug therapies Managing acute illness and opportunistic infection either through aggressive outpatient management or hospitalization Provide additional community/ social support if needed Access to Hospice Care

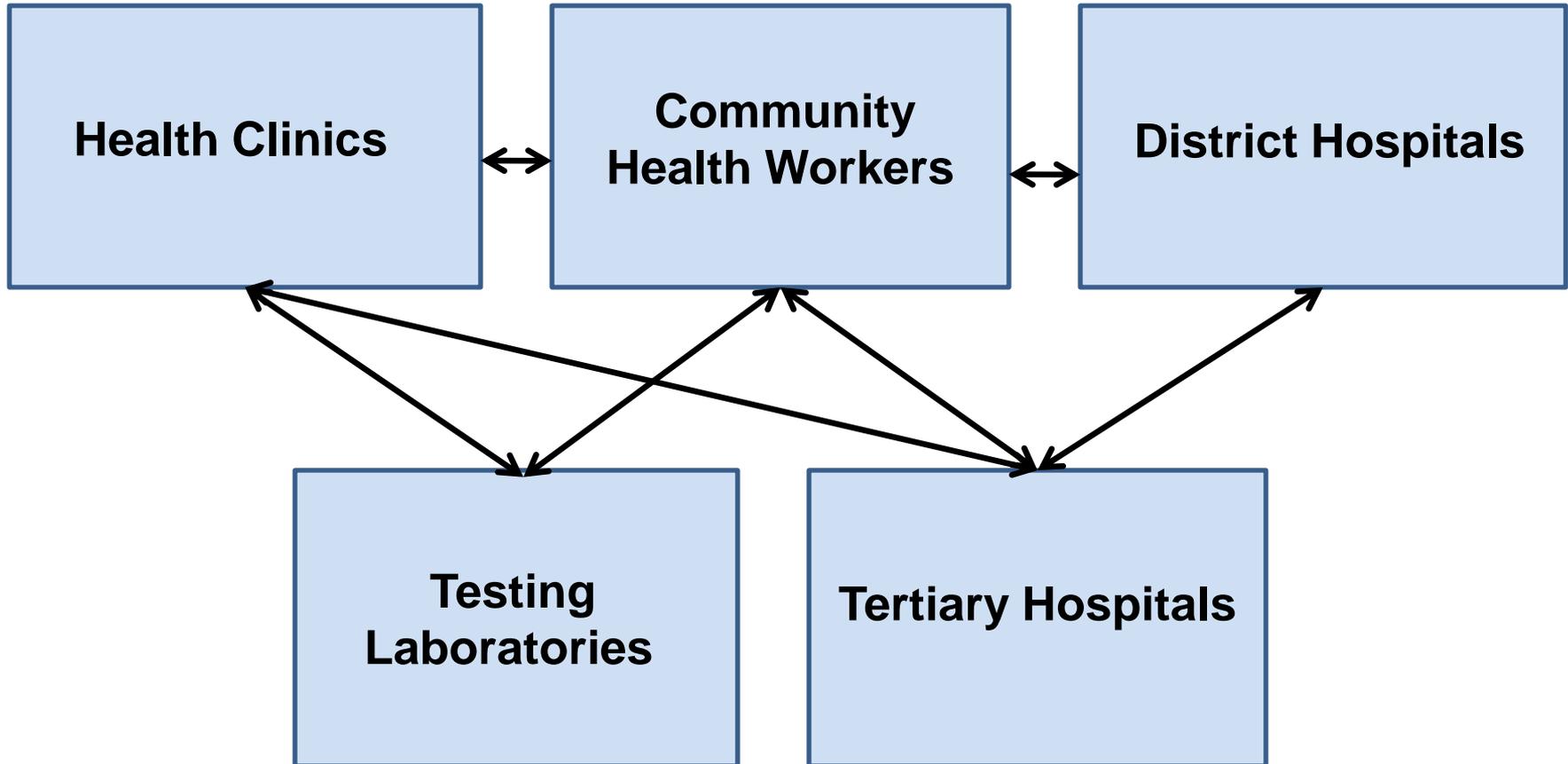


Care Delivery Value Chain

Implications for HIV/AIDS Care

- **Early diagnosis** helps in forestalling disease progression
- **Intensive evaluation and treatment at the time of the diagnosis** can forestall disease progression
- **Improving compliance with first stage drug therapy** lowers drug resistance and the need to move to more costly second line therapies

Shared Delivery Infrastructure

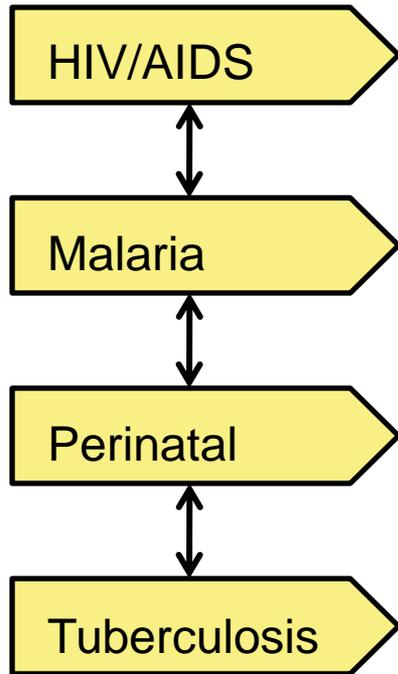


Cross Cutting Issues

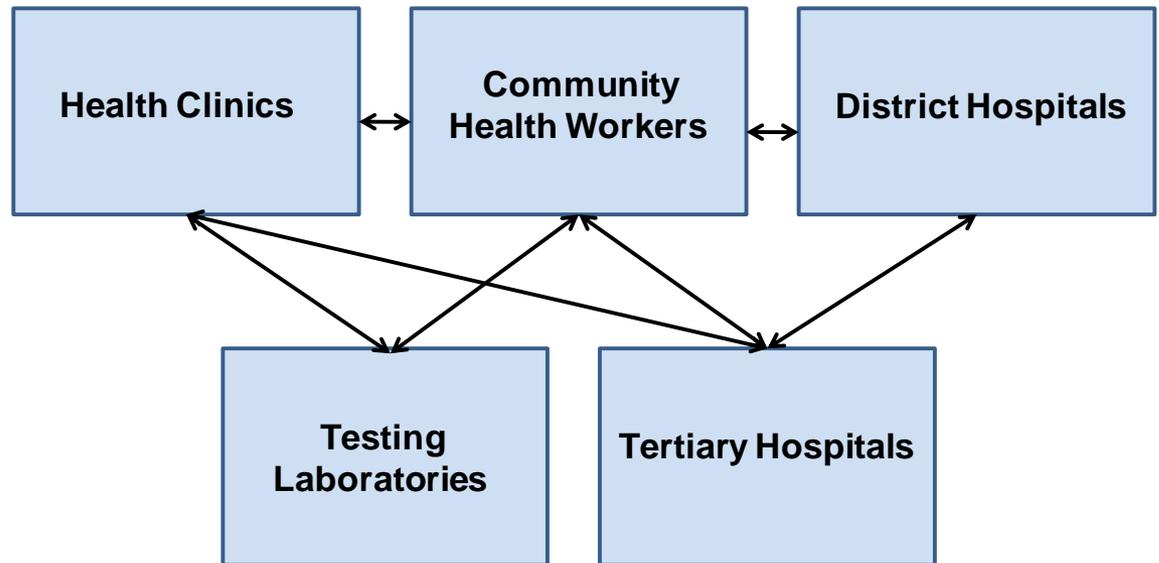
- Supply Chain Management
- Human Resource Development
- Insurance and Financing

Integrating “Vertical” and “Horizontal”

Care Delivery Value Chains



Shared Delivery Infrastructure

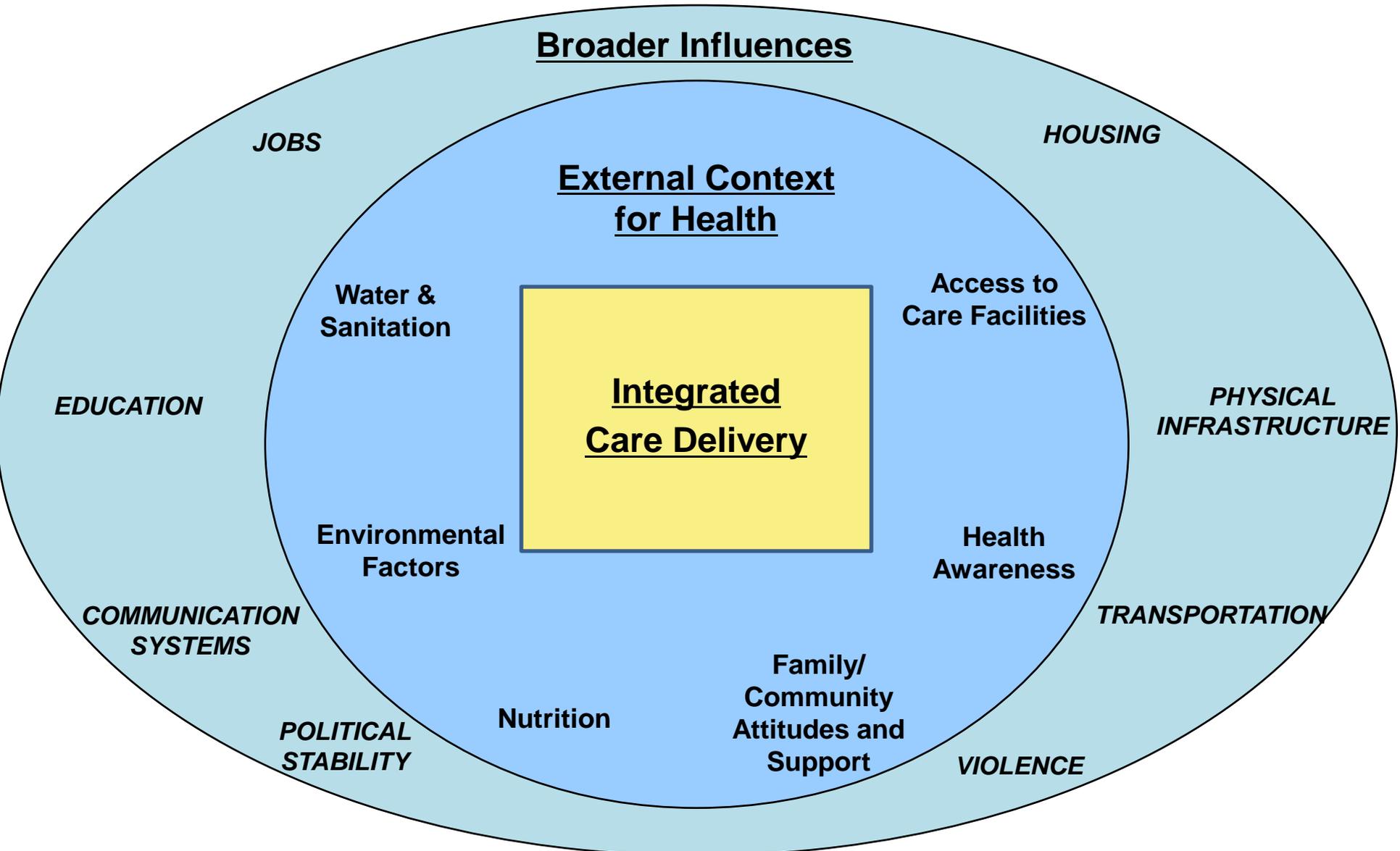


Shared Delivery Infrastructure

Implications for HIV/AIDS Care

- Screening is most effective when **integrated into a primary health care system**
- Providing **maternal and child health** care services is integral to the HIV/AIDS care cycle by substantially **reducing the incidence of new cases of HIV**
- Community health workers not only improve compliance with ARV therapy but can **simultaneously address other conditions**

Integrating Delivery and Context



Integrating Care Delivery and Social/Economic Context

Implications for HIV/AIDS Care

- Community health workers can have a major role in **overcoming transportation and other barriers to access and compliance** with care
 - Providing nutrition support can be important to **success in ARV therapy**
 - Integrating HIV screening and treatment into routine primary care facilities can help address the **social stigma** of seeking care for HIV/AIDS
 - Gender dynamics **limit the use of prevention options** in some settings
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- Management of **social** and **economic barriers** is critical to the treatment and prevention of HIV/AIDS

The Relationship Between Health Systems and Economic Development

Better Health Enables Economic Development

- Enables people to work
- Raises productivity

Health System Development **Fosters** Economic Development

- Direct employment (health sector jobs)
- Local procurement
- Catalyst for infrastructure (e.g. cell towers, internet, and electrification)

A New Field in Global Health

