



Paul Wallace MD
Care Management Institute
Kaiser Permanente

Paul.Wallace@kp.org



Douglas Holtz-Eakin, Director

October 13, 2004

Honorable Don Nickles Chairman Committee on the Budget United States Senate Washington, DC 20510

Dear Mr. Chairman:

In response to inquiries by you and your staff about whether disease management programs can reduce the overall cost of health care and how such programs might apply to Medicare, the Congressional Budget Office (CBO) has prepared the attached analysis. It examines peer-reviewed studies of disease management programs for specific conditions—congestive heart failure, coronary artery disease, and diabetes (selected in part because they are highly prevalent among Medicare beneficiaries)—and broader reviews of the relevant literature published in major medical journals.

According to CBO's analysis, there is insufficient evidence to conclude that disease management programs can generally reduce overall health spending. It is important to note that such programs could be worthwhile even if they did not reduce costs, but CBO's analysis focused on the question of whether those programs could pay for themselves. The proposition that decreased use of acute care services might offset the costs of the screening, monitoring, and educational services in disease management programs is clearly appealing, but, unfortunately, much of the literature on those programs does not directly address health care costs. Instead, the focus is often on the processes of care or on intermediate measures of health, from which an overall impact on spending cannot reasonably be inferred. The few studies that report cost savings do so for controlled settings and generally fail to account for all health care costs, including the cost of the intervention itself. Furthermore, if disease management programs were applied to broader populations, the reported savings might not be attainable, and the programs could even raise costs. So while a few studies indicate that disease management programs could be designed to reduce overall health costs for select groups of patients (at least in the short term), little research directly addresses the issues that would arise in applying disease management to the older and sicker Medicare population.

CBO will continue to monitor this research as new information becomes available—in particular, the results of disease management demonstration projects now being developed by the Centers for Medicare and Medicaid Services. "According to CBO's analysis, there is insufficient evidence to conclude that disease management programs can generally reduce overall health spending. It is important to note that such programs could be worthwhile even if they did not reduce costs, but CBO's analysis focused on the question of whether those programs could pay for themselves."

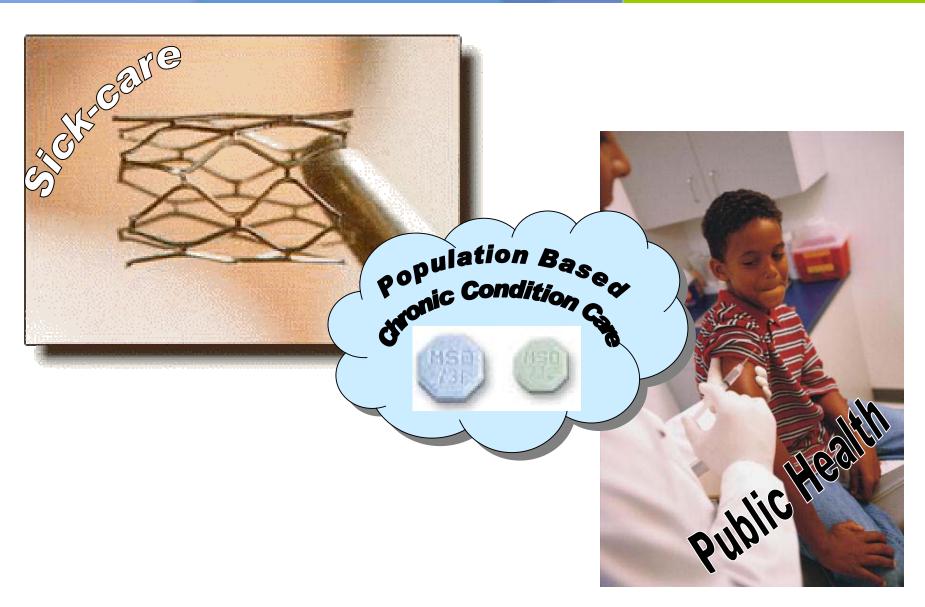
Concerns

- "Technical issues"
 - Search currency, exclusions and inclusions
 - Relevance to Disease Management as delivered in 2004
- The problem formulation
 - "... whether disease management programs can reduce the overall cost of health care...?"
- Relationship of costs to value...

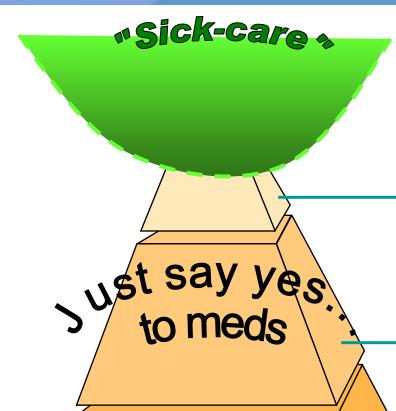
Presentation Outline

- Context: Caring for entire populations
- DM value model
- Stakeholder perspectives on value
- Value measurement
- Solving the value equation
- Value framing
- Return on Investment An alternative view
- What about the next CBO report?

Healthcare's "Middle Space"...



Population-based care: Managing the <u>whole</u> population



Pedometers, Smoking Cessation, and Health Education

Intensive Management

Leverage available resources to optimize health status and coordination of care

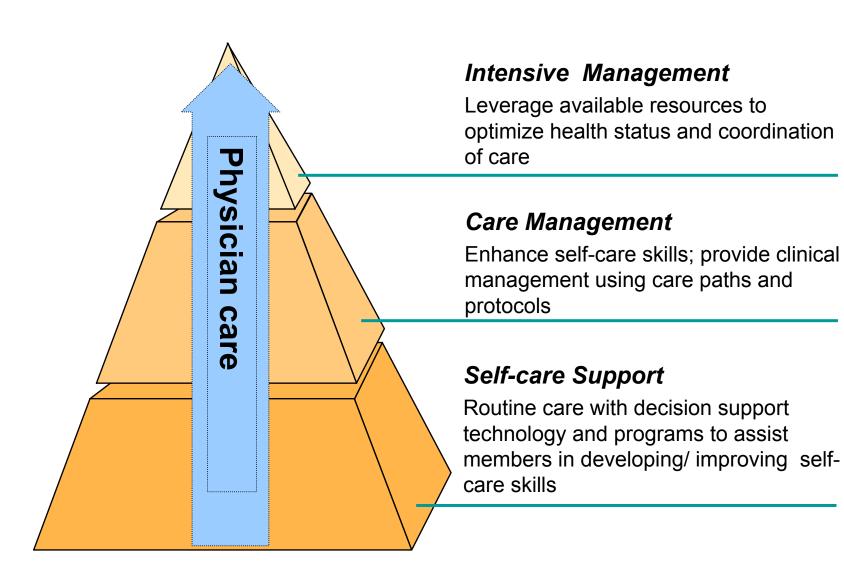
Care Management

Enhance self-care skills; provide clinical management using care paths and protocols

Self-care Support

Routine care with decision support technology and programs to assist members in developing/ improving selfcare skills

Population-based care: Managing the <u>whole</u> population



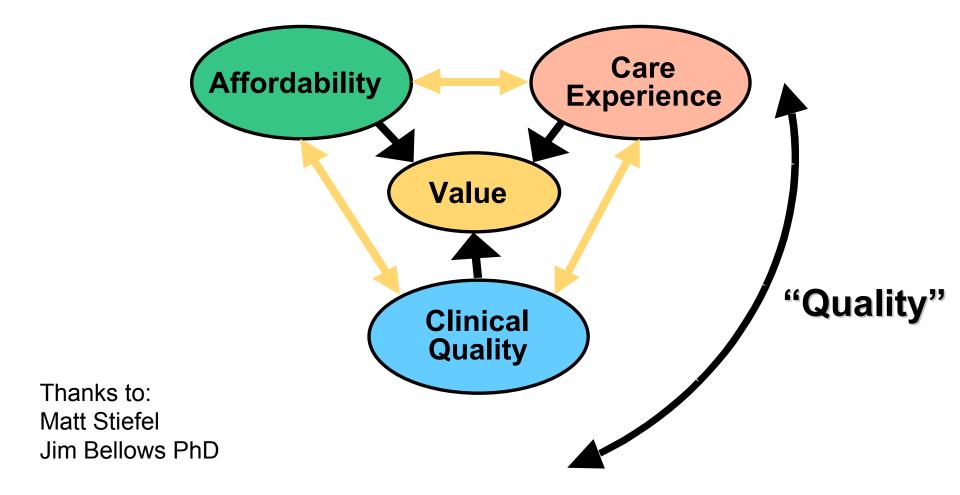
What is "Value"?

Value: Worth, utility, or importance in comparison with something else —Webster's Dictionary

Characteristics of Value

- Value is relative
- Value is subjective Each stakeholder is unique
- Valuing something is more than finding it desirable
 - What would be given up in exchange?
 - Ultimate test of value is choice (People "vote with their feet")
 - For market goods, value is indicated by the amount of money a person would pay

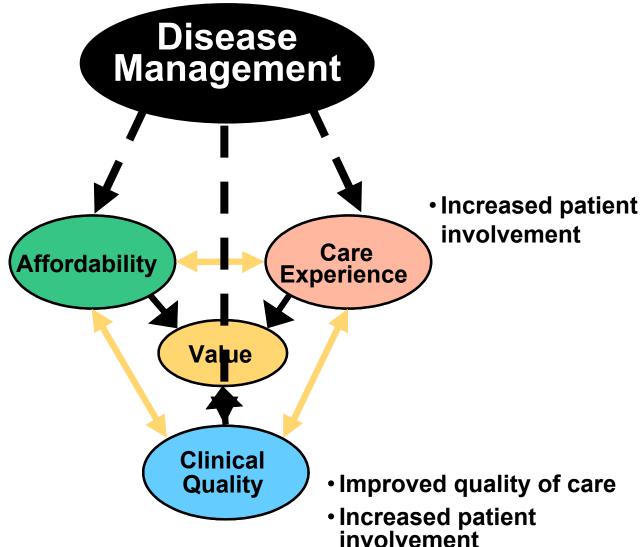
Value Model



DM Impact on Value



- Direct costs of DM
- Membership growth
- Reduced utilization

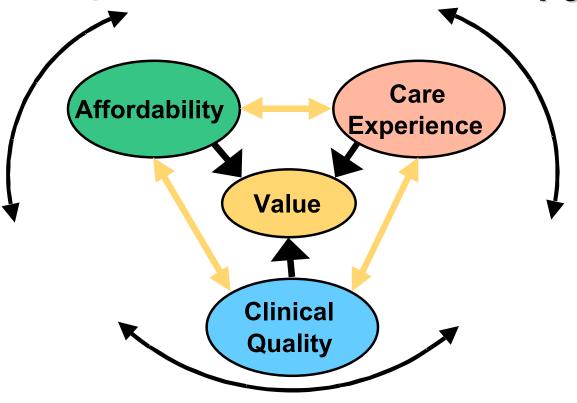


Who are the Stakeholders for DM?

Consumers (members, "pre-" members)	 Ultimate customers Trend — increasing "skin in the game"
Purchasers	 Paying most of the freight (for now) Ability to steer consumers toward particular health plans/DM programs (highest-value plans?)
Clinicians	 DM programs can influence clinical care Integration of DM program with their practice highly variable
(Health Plan Management)	 Invests \$\$ in DM programs that could otherwise go into other services how much to invest? Values reflect both customers' values and organizational constraints

Purchaser Perspective

Consumer Perspective

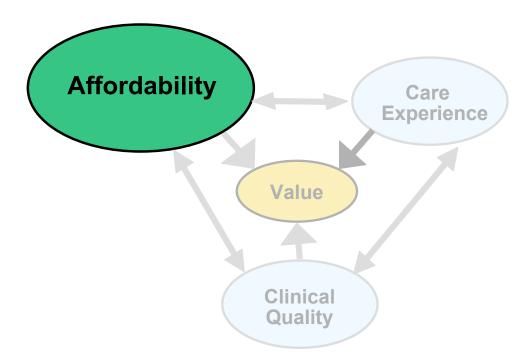




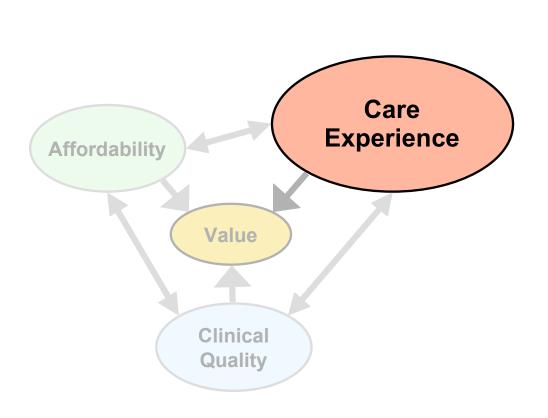
Clinician Perspective

Purchaser Perspective



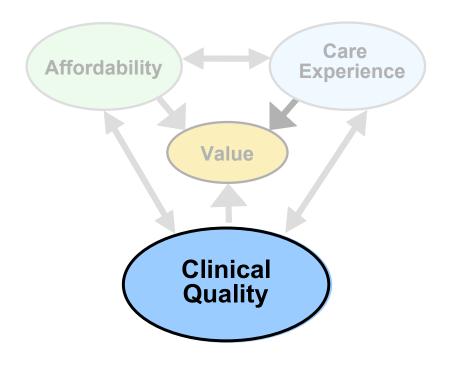


Consumer Perspective





Clinician Perspective





Perspectives Can Change... Consumer Example

Increased consumer cost-sharing

 As purchasers shift more responsibility for the cost of health care to consumers, consumers pay more attention to affordability

Timing

Pregnancy or planned major surgery may increase relative importance of clinical quality

Within Segment Differences

Consumers

- Sick vs. well
- Degree of risk-aversion

Purchasers

- "Value" purchasers vs. price purchasers
- Workforce: age, tenure, size
- Self-insurance

Clinicians

- Degree of integration of DM program with practice
- Size of group







Measuring Value — Challenges

- Within value components
 - Affordability
 - Care experience
 - Clinical quality
- Across value components
 - ROI
 - Cost-effectiveness

Measuring Cost and Affordability

Sources and Methods	Measurement Challenges	
 CBO NCQA Efficiency Measurement Advisory Panel DMAA Guide to DM Program Evaluation Bridges to Excellence Disease Management Purchasing Consortium Certification Program for DM Savings Measurement National Managed Health Care Congress Workgroup 	 Regression to the mean Selection bias: opt-in vs. all members; population subset vs. entire population Savings relative to trend vs. absolute savings Risk adjustment across plans Total costs vs. disease specific costs Savings: to whom? Many more 	

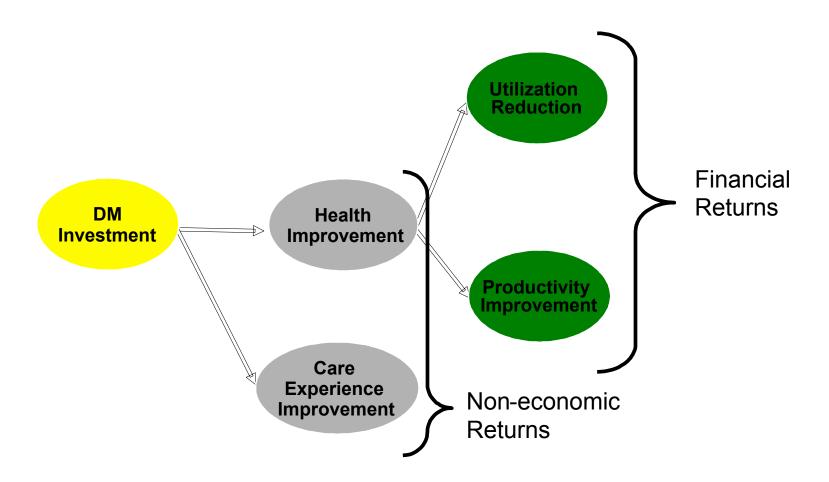
Measuring Clinical Quality

Sources and Methods	Measurement Challenges	
 HEDIS National Quality Forum Ambulatory Care Quality Alliance Accreditation: NCQA, URAC, JCAHO CMS States Purchaser RFPs and on and on 	 Aggregation of quality measures No standard metrics in practice (e.g., "QALYs") "Too many, too few" problem Coordination Measuring functional status and quality of life Time lag for health outcomes 	

Measuring Care Experience

Sources and Methods	Measurement Challenges	
 CAHPS DMAA patient satisfaction survey 	 Aggregation/translation of survey data into meaningful accreditation scores Sampling Expensive 	

Return on Investment Causal Pathways



Decision Points — Value Trade-offs

Consumer

- Selecting a health plan or clinician
- Adherence to care plans



- Coordination with DM program
- Treatment recommendations for individual patients
- Panel management

Purchaser

- Selecting a health plan
- DM carve-out
- Self-insurance

Health plan

Making DM investments (including outsourcing)





Framing Value —

Stakeholders' choices are influenced by the information they receive.

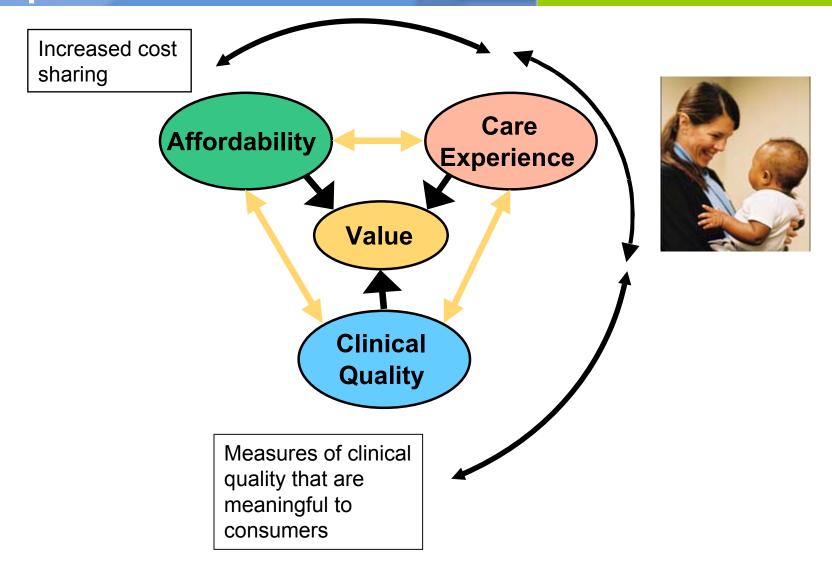
- Information content and the way it is communicated together — determine stakeholders' understanding of their choices
- Value "framing" can affect choice
- Variety of information sources, including marketing materials, regulatory reports, RFPs, consultant evaluations

Framing Value — continued

Stakeholders' choices are influenced by the information they receive.

- Example
 - Real-world choices are based on relative quality and price
 - But what's the frame of reference? Vs. competitors? Improvement over time? Vs. "Usual care"?
- A key decision for value assessment and value demonstration is what "framing" to apply

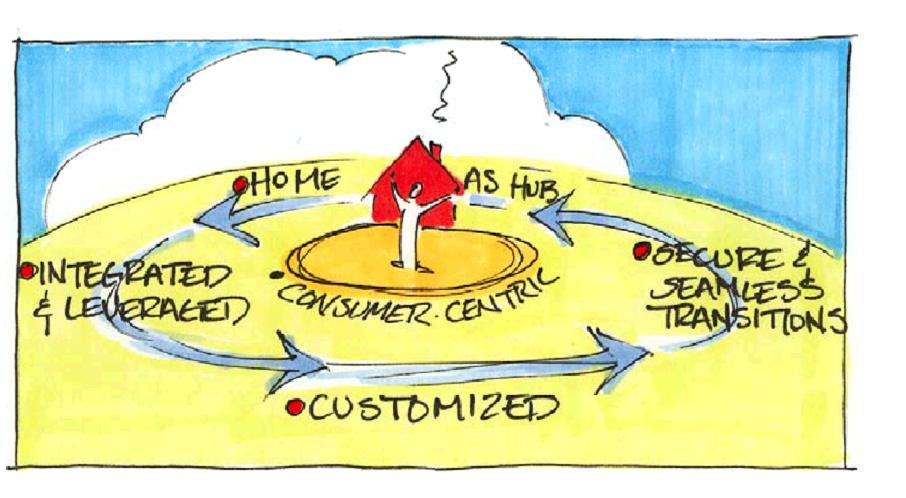
Broadening the Consumer Perspective



How do we get the consumer's attention?

- "Rules of the Game" model
 - Disease management
 - Case management for high risk participants
- "Skin in the game" model
 - Tiered co-pays
 - Coinsurance
 - High Deductible Health Plans
 - Tiered networks: hospitals, specialists, PCPs
 - Consumer Directed Plans
- "Brain in the game" model
 - Healthy lifestyles, wellness activities
 - Self management for acute and chronic conditions
 - Shared decision making
 - Web-based decision support tools

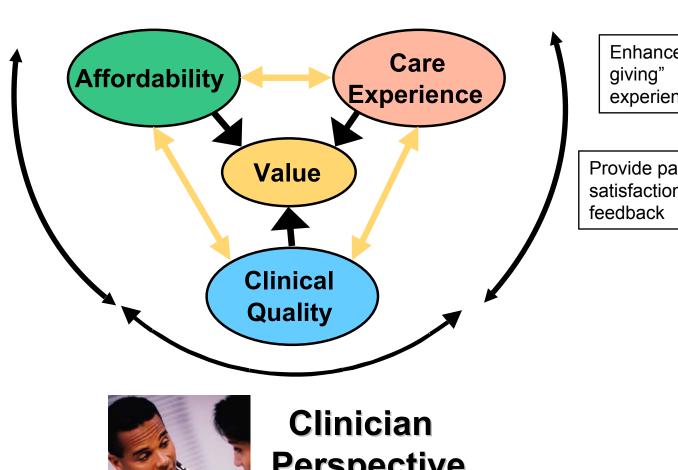
The Patient at the Center of Care



Broadening the Clinician Perspective

Feedback on cost implications of care decisions

Impact of increased consumer cost sharing on care decisions and compliance



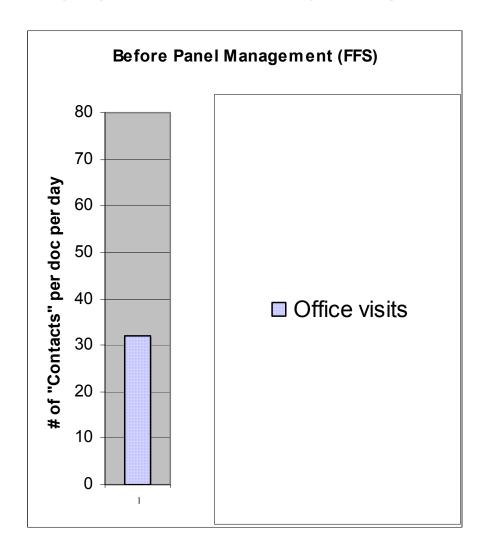
Enhance "care experience

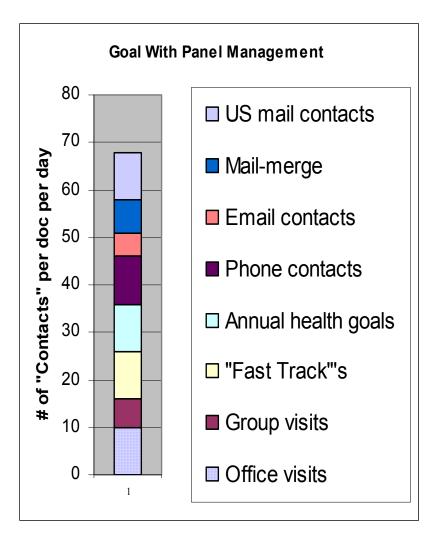
Provide patient satisfaction



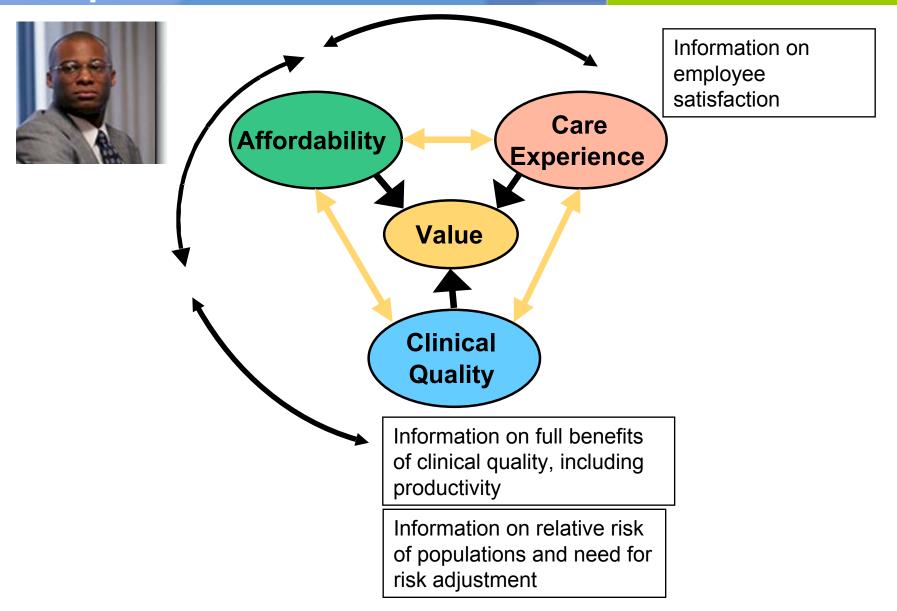
Primary Care Physicians and How They "Manage" Their Patient Panel

Every system is perfectly designed to produce exactly what it delivers...





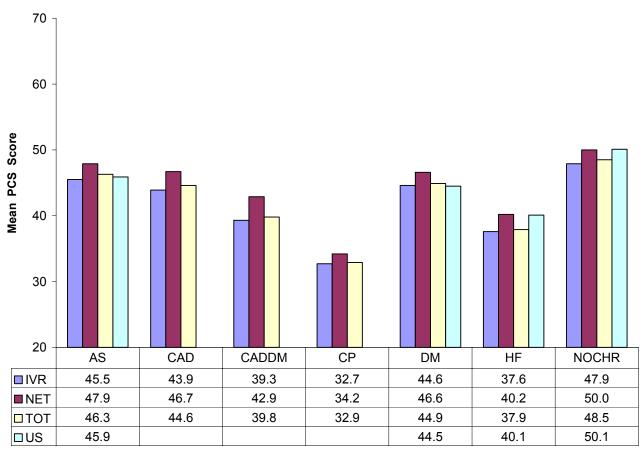
Broadening the Purchaser Perspective



Health Impact Assessment (HIA) Survey Tool

- SF-8™ Health Survey (physical and mental status)
- Disease-Specific Questions
 - self-management (confidence to manage disease)
 - self-efficacy (confidence to prevent disease from interfering with daily activities)
 - absenteeism (missed school work days in past 12 months)
 - AIS-6 (asthma impact score for asthma cohort)

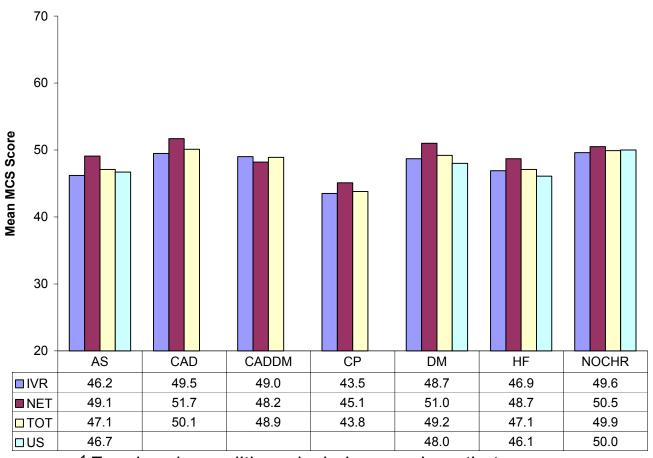
Physical Component Summary (PCS) Scores by Chronic Condition Cohort and Mode of Administration^{1,2}



¹ For chronic conditions, includes members that were ever told they had chronic condition

² A difference of 5 points between groups is considered clinically significant

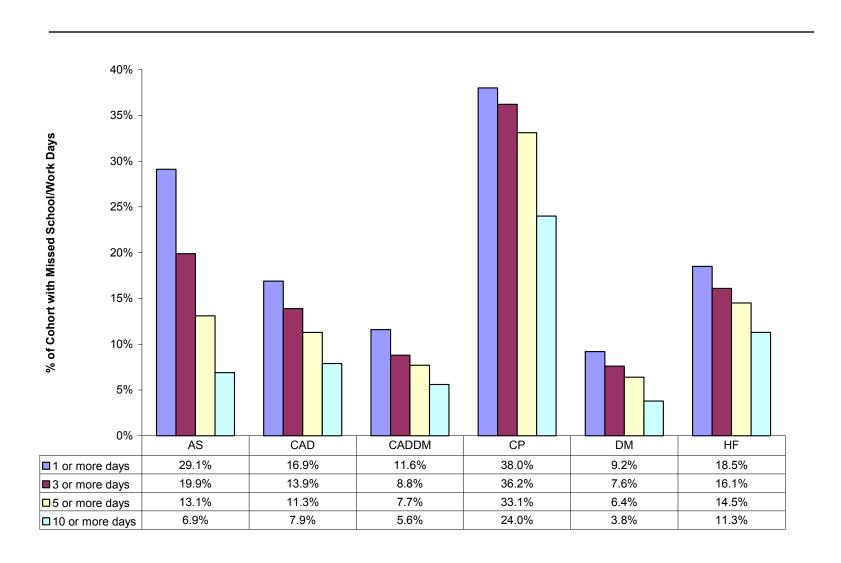
Mental Component Summary (MCS) Scores by Chronic Condition Cohort and Mode of Administration^{1,2}



¹ For chronic conditions, includes members that were ever told they had chronic condition

² A difference of 5 points between groups is considered clinically significant

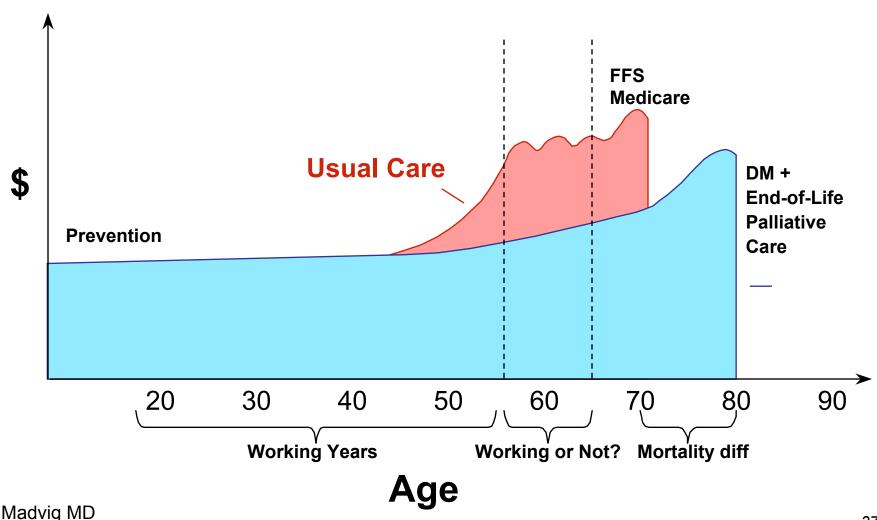
Missed School/Work Days by Chronic Condition in the 12 Months Prior to Interview



Measuring Overall Value

Measurement Challenges Sources and Methods DMAA Guide to DM Program Valuation of quality improvements **Evaluation** "Live to utilize" issue American Healthways/Johns Hearts vs Hips Hopkins white paper ICUs vs Palliative Care Disease Management **Purchasing Consortium** NCQA: combination of quality and resource consumption metrics

Thinking about Care in the Future



Phil Madvig MD
The Permanente Medical Group

KP Priority Conditions

Clinical Area	KP Members with this Condition		
Asthma	84,000	(2.4% of members)	
Coronary Artery Disease	197,000	(3.4%)	
Depression	402,000	(7.0%)	
Diabetes	546,000	(9.6%)	
Heart Failure	97,000	(1.4%)	
Cancer	25,000 new cases/yr		
Chronic Pain	285,000	(5.1%)	
Elder Care	869,000	(11.3%)	
Obesity (BMI > 29)	~ 30% of adults		
Self Care & Shared Decision Making	8.3	MM	

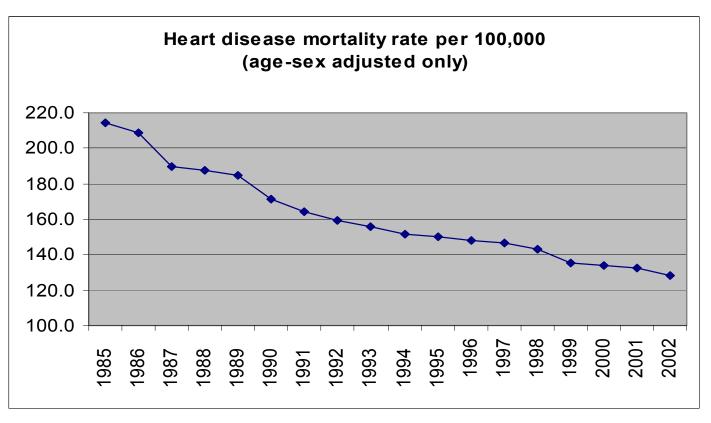
Does Care Management Save Money? The KP Experience

- In 2003, programs for diabetes, heart failure, CAD, asthma and Depression "saved" ~\$200M *relative to cost trends* in Northern California (~3 M members)
- These programs did not produce <u>absolute</u> savings we spent more on the care of the <u>entire population</u> of members with diabetes, heart failure, coronary artery disease, asthma and depression in 2003 than in 2002.
- Doing more and more things that are cost-effective, but not cost saving, does not save money)
- Substantial increases in clinical process and outcome measures have been achieved for diabetes, heart failure, coronary artery disease, asthma and depression
- These programs continue to produce absolute value from the perspectives of the health system stakeholders

Heart Disease Mortality Rate

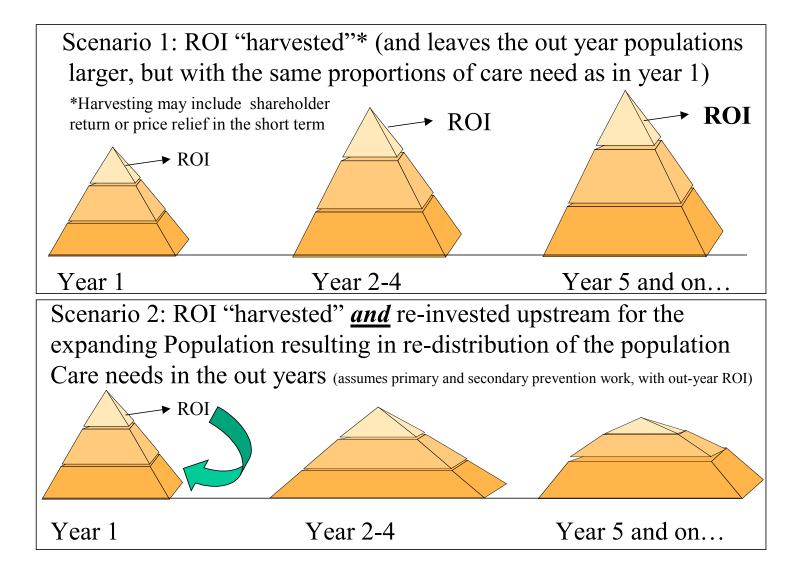
KP Population

- 25% Reduction in heart disease deaths 1990-2002
- Heart disease no longer leading cause of death for KPNC members
- KPNC members have 30% lower chance of dying from heart disease



B. Fireman, et.al, DOR 2004

Return on Investment... ...and Investment of Returns



Summary

- The value of Disease Management (DM) is in the eye of the beholder
- Stakeholder assessment of value and the tradeoffs they are willing to make reflect their perspective and situation
- No single measure of value is all encompassing, although measures to support common perspectives are evolving
- Understanding and balancing the different perspectives is necessary to evaluate overall DM value

The Next CBO Report...2006

"Technical issues"

- Search currency, exclusions and inclusions
- Relevance to Disease Management as delivered in 2006

■ The problem formulation

- From the perspectives of affordability, the care experience and clinical quality, are we harvesting maximum value for every dollar being spent on care for individuals with chronic medical conditions? What trade-offs are being made between these perspectives?
- Does use of Disease Management improve overall value return relative to the status quo?

Personal Perspective...

Is There Long-Term Value in Disease Management Programs?

An Unequivocal Yes

