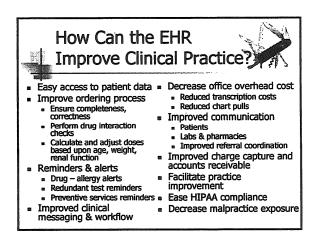


- Facilitate workflow by status communication
- Retrieve prior health information
- Record today's problems & observations
- Record today's assessment & plan
- Communicate orders
- Remind & alert of exceptional conditions
- Collect & communicate billing information
- Analyze & improve clinical practice



# Health care is not a computer-

- Complex "product"; each patient is unique
- Very broad and uncontrolled vocabulary
- Many work decisions are values-laden; values are personal
- Complex processes; many roles, much individualization, freedom of choice
- Activity is fragmented, distributed & sometimes urgent
- Must facilitate workflow, not just data storage
- Many interacting systems; communication standards are more like suggestions than rules
- Life science knowledge is incomplete, sometimes wrong, always evolving, and slowly communicated

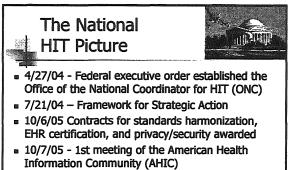
## Health Info. Technology (HIT): a panacea for healthcare? As many as 98,000 people per year die from medical errors that occur in hospitals HIT may be key to improving patient safety

- IOM Crossing the Chasm challenge effective dinical use of HIT
- The Leapfrog Group focused on CPOE & alerts
- HIT Leadership Panel "Widespread adoption of interoperable health IT should be a top priority



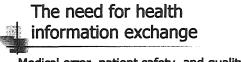
for the US health care system" (5/11/05) Bipartisan<sup>1</sup> congressional support (12/05)

To Err is Human: Building a Safer Health System, 2000, NAP Crossing the Quality Chasm: A New Health System for the 21st Century, 2001, NAP



11/10/05 – Nationwide Health Information Network prototype awards

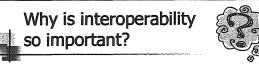
Available at www.os.hhs.gov/healthit/



- Medical error, patient safety, and quality issues
- Providers have incomplete knowledge of their patients
- Patients are portable; their health records aren't
- A fractured healthcare delivery system
- An 'unwired' system

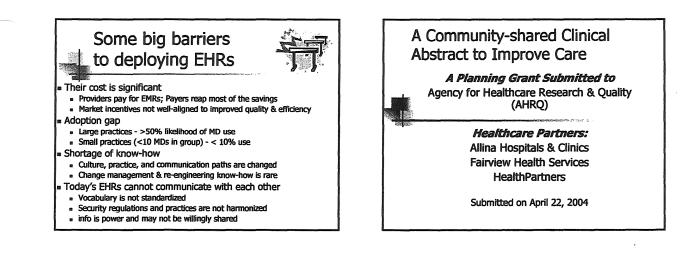
What is interoperability?

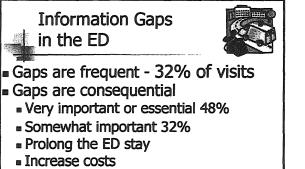
 Definition: Interoperability is the ability of two or more systems to exchange information and to use the information that has been exchanged.

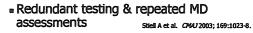


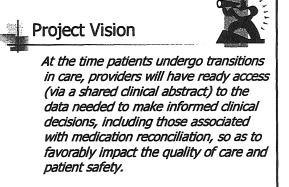
- Patients can more easily move among clinicians
- Care can be better coordinated
- Without it, EMR adoption will strengthen existing information silos
- HIEI may save the US healthcare system's money
  - \$337B over a 10-year implementation period
  - \$78B a year thereafter

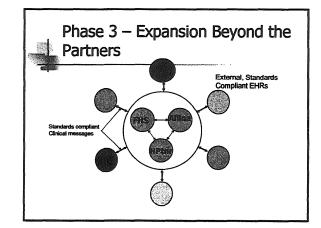
DJ Brailer. *Health Affairs*, January 2005. J Walker et. al. *Health Affairs*, January 2005.

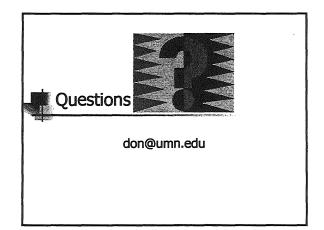












## Health Information Technology, Quality Improvement, and Data: Necessary but not sufficient

Gary Oftedahl, MD Medical Director/Interim President Institute for Clinical Systems Improvement

## ICSI

- A collaboration of 57 medical groups & hospital systems
  - 60 hospitals with 8,341 beds (including 55% of the beds in Minnesota)
  - 56 medical practices with 7,500 physicians (including 75% of those in Minnesota)
- Sponsored by six health plans
- Established in 1993

## ICSI Program

- · Core commitment cycle
- Scientific groundwork
- Guideline development & maintenance
   Technology assessment
- Support for improvement
- Education & training
  Coaching
- Coaching
- Action groups (improvement collaboratives)
   Knowledge products
- Advocacy for quality

# Quality focus--1993-2000 • Guideline development--the science

- Principles of CQI
  - Team based
  - Data driven
  - Customer focused
  - Process orientation, not personal
- · Separated from leadership---"project" driven

## The Shift begins....

- 1999--Institute of Medicine--"To Err is Human" released
  - 98,000 lives/year lost from medical error
- Second IOM report--Crossing The Quality Chasm
  - Difference between the care we deliver and what our patients deserve is a "chasm" not a gap

## Quality Improvement in MN

- ICSI--increasing focus on need for systems, new methods, use of guidelines/evidence based medicine
- Guidelines--good idea, but usually "on the shelf"
- Barriers--lack of data, lack of ability to measure, culture of denial ("cookbook" medicine)

## QI and HIT???

- · Challenges--"one provider at a time"
- Not about "hardware and software" alone-about quality
- HIT necessary, not sufficient to move quality
- Need to define the goals of the quality movement

## Quality Movement Goals

- Better identify components of quality healthcare
- Better ways to deliver quality healthcare
- Perhaps actually SAVE money, as well as lives--quality care is cost effective care

## HIT and QI--the challenge

- Present culture of health care
  - Tradition--"we've never done that before"
  - Paper based
  - Craftman's approach vs. systems approach
- Movement to HIT--one part technology and two parts culture and process change
  - Needs to support workflow, not add layers

## HIT/QI--the convergence

- Access to patient information when and where it's needed
  - HIT may allow portability of information
  - Presently, virtually nonexistent
  - Will not occur without technology to support efforts

## HIT/QI--the convergence

- Better quality means providing information for best treatment choices for patients to providers
  - Need to imbed protocols/guidelines in process, not on the shelf
  - Challenge of developing the technology to support this in many venues

## HIT/QI--the convergence

- Better quality means preventing medical errors
  - Presently a culture of "fear", lack of systems to identify and report errors.
  - HIT opportunities
    - Error reporting systems
    - CPOE (Computer Point of Entry) orders
      Bar coding of medications
  - Can't accomplish the above without HIT support

## HIT/QI--the convergence

- Better quality means coordinating the patient's care
  - Similar to information access—information available to all providers involved.....and the patient

## HIT/QI--the convergence

- Better measurement key to improvement in healthcare
  - Positive value of feedback on performance to providers--not easy without HIT
  - Ability to move toward public reporting/data transparency--Minnesota Community Measurement
  - Movement to agreement on standards of care

## HIT/QI--the convergence

- Assisting healthcare providers in engaging patients in their personal healthcare
  - HIT opportunities to provide information in many ways
    - · Access to medical records
    - Access to accurate information on Internet
    - · Potential use of email, telemedicine

## Land mines on the Road to Success

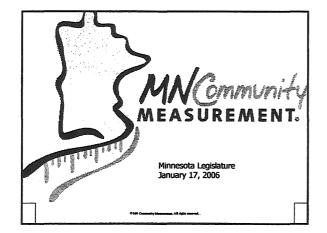
- Culture issues--autonomy, "silo" effect
- Reimbursement mechanisms

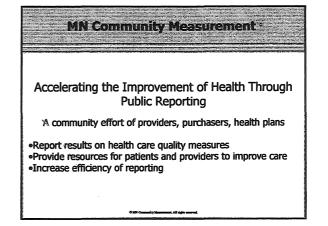
   Present system promotes piecework, limits opportunities to move forward
- Looking for the quick fix, expecting HIT alone to fix the problems
- · Project approach vs. process/journey

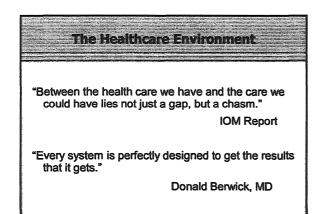
## The Minnesota Journey Where are we now?

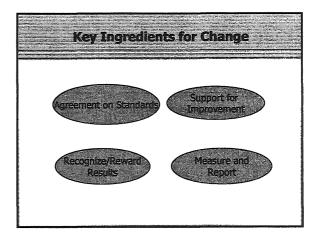
- ICSI-over 75% of providers in state involved
   Providing resources for systems approach, QI
- Minnesota Community Measurement
   Great movement and increasing acceptance
- Spirit of collaboration and sharing high - Recognition of need for more change
- Nationally, #1 in health--but need much more

in Chase











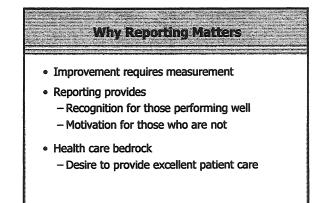
- Reporting Advisory Group
- Data Planning Workgroup

# **Community Measurement - Background**

- Fourth year of report
  - 2002 diabetes
  - 2003 nine clinical topics, 20 measures
    2004 first public report

  - 2005 group comparisons
- Report on 54 medical groups where 90% of Minnesotans get their primary care.
- · Includes Medicare, Medicaid, Commercial, Self-Insured

	I Groups
- Philips internation	ng 700 + clinics
	the second s
Affiliated Community Medical Centers	Mayo Clinic
Allina Medical Clinic	<ul> <li>Mayo Health System</li> </ul>
<ul> <li>Altru Health System</li> </ul>	MeritCare
<ul> <li>Aspen Medical Group</li> </ul>	<ul> <li>Minnesota Healthcare Network</li> </ul>
<ul> <li>Avera Health/Tri-State Health Affiliates</li> </ul>	<ul> <li>Minnesota Rural Health Cooperative</li> </ul>
<ul> <li>Brainerd Medical Center, P.A.</li> </ul>	<ul> <li>Multicare Associates of the Twin Cities</li> </ul>
<ul> <li>Buffalo Clinic, P.A.</li> </ul>	<ul> <li>Neighborhood Health Care Network</li> </ul>
<ul> <li>Camden Physicians</li> </ul>	<ul> <li>North Clinic</li> </ul>
<ul> <li>CentraCare Health System</li> </ul>	<ul> <li>North Memorial Clinic</li> </ul>
<ul> <li>Central Lakes Medical Center, P.A.</li> </ul>	<ul> <li>Northstar Physicians</li> </ul>
<ul> <li>Columbia Park Medical Group</li> </ul>	<ul> <li>Northwest Family Physicians</li> </ul>
<ul> <li>Crossroads Medical Centers, P.A.</li> </ul>	<ul> <li>Olmsted Medical Center</li> </ul>
<ul> <li>Dakota Clinic, Ltd.</li> </ul>	<ul> <li>Park Nicoliet Health Services</li> </ul>
<ul> <li>Fairview Health Services</li> </ul>	<ul> <li>Quello Clinic, Ltd.</li> </ul>
<ul> <li>Family Health Services of Minnesota</li> </ul>	<ul> <li>Regina Medical Center</li> </ul>
<ul> <li>Family Practice Medical Center-Willman</li> </ul>	<ul> <li>Ridgeview Care System</li> </ul>
<ul> <li>Fergus Falls Medical Group, P.A.</li> </ul>	<ul> <li>Riverwood Albin Clinic</li> </ul>
Grand Itasca Clinic	<ul> <li>St Cloud Medical Group, Ltd.</li> </ul>
Gundersen Clinic	<ul> <li>St. Luke's Clinics</li> </ul>
<ul> <li>HealthEast</li> </ul>	<ul> <li>St Mary's/Duluth Clinic Health System</li> </ul>
<ul> <li>HealthPartners Central Minnesota Clinics</li> </ul>	<ul> <li>Stillwater Medical Group</li> </ul>
<ul> <li>HealthPartners Medical Group and Clinics</li> </ul>	<ul> <li>SuperiorHealth Medical Group</li> </ul>
<ul> <li>Hennepin County</li> </ul>	<ul> <li>University of Minnesota Physicians</li> </ul>
<ul> <li>Hutchinson Medical Center, P.A.</li> </ul>	<ul> <li>Western Wisconsin Medical Associates</li> </ul>



## Why Community Driven?

- The public and the providers need to set the priorities
- Must be reliable for providers and consumers
- Patients and the community have a role in the results

# MN Community Measurement

- Results are improving
- Medical groups are engaged
- The public is interested

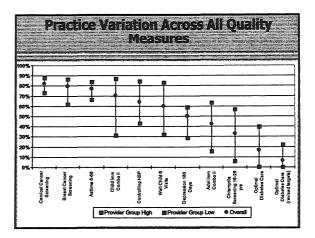
   30,000 website visits in November
   Included in state employee open enrollment
- Employers and payors are recognizing results

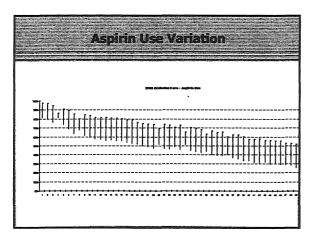
	2001	2002	2003	2004
<b>Optimal Diabetes</b>	8%	12%	12%	16%
(All cardiovascular risks at target)				

## MN Community Measurement \* What Does This Mean?

- Hundreds of people in Minnesota will avoid serious adverse outcomes:
  - -fewer deaths
  - -fewer stokes
  - -fewer heart attacks
  - -fewer eye complications
  - -fewer kidney complications
  - -fewer amputations

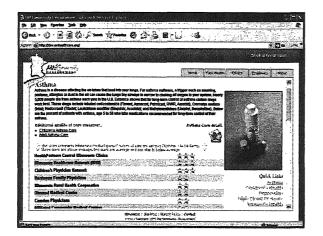
Other Results					
	2002	2003	2004		
Asthma	71%	74%	76%		
Depression	49%	51%	49%		
Childhood Immunizations	63%	64%	68%		
Adolescent Immunizations	27%	35%	39%		
Well Child Visits	45%	53%	59%		
Blood Pressure Treatment	57%	60%	64%		
Breast CA screening	76%	75%	74%		
Cervical CA screening	76%	78%	78%		
Chlamydia screening	26%	29%	32%		

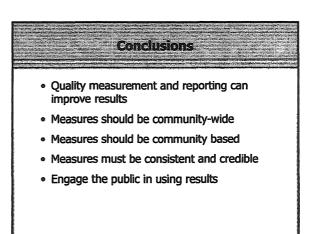




## Public Website

- Information on the patient and provider role in improving care
- Shows comparisons across medical groups or regions
- Multiple views of data
- Much work to be done to engage the consumer



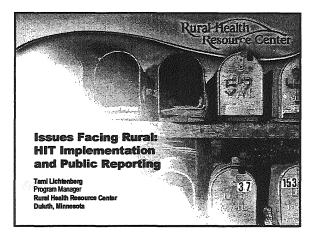


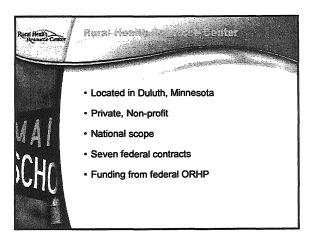
## Recommendations

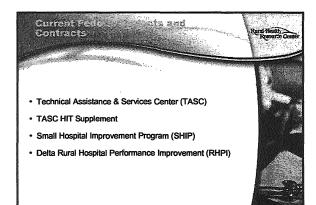
- Encourage Medicare to work with regional organizations on public reporting of health care quality.
- Support new measures
   Specialty care
   Measure results across care locations
   Patient experience
   Cost
- Expand the populations included in measurement
- Include public programs in the same measurement process. Should we use the same measures, but report separate public program results?

## Questions or Comments

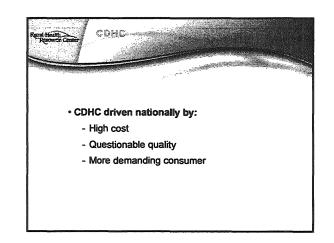
Jim Chase Executive Director MN Community Measurement 651-209-0390 chase@mnhealthcare.org

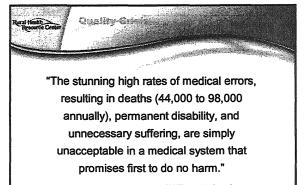




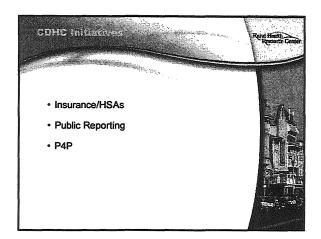


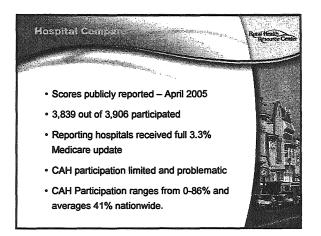
arai titali Caner	Consumers		Dare.
Supply regulation	1980s	Managed behavior modification	2000s
1970s	r Price regulation	1990s	Consumer-drive health car

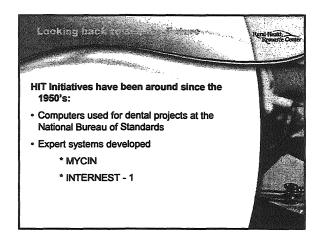


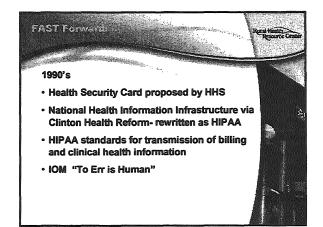


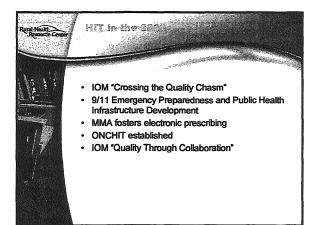
- William Richardson, IOM Committee Chair





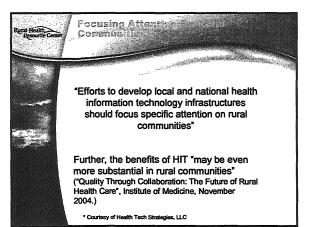


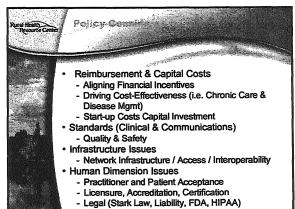




What Everyonal Automation
 Corres Plann
 Corres
 Corres of Health Tech Strategies, LLC

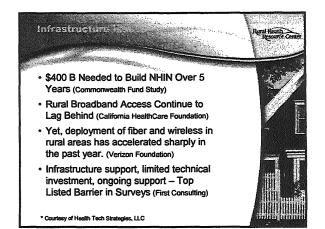
Ranal Histall Resource Center	Some Additional Des	Technical Association Services Center (TASC) Pitt Storman
	Small rurals may have no IT support let alone an IT Department Hard to find M.D. or Adm. leaders / change agents Other business priorities i.e. "surviving" No business case for connectivity / linkages to other institutions (stand-alone EHRs?) No aggregate buying power (hence pooled vendor selection processes) Need to address critical referral pattern issues, disruptions, patient flows, etc Rural health care organizations will need special legislative consideration * Curtiev of Health Tech Strategies, LLC	<ul> <li>Working with the AHRQ National Resource Center (NRC):</li> <li>Compile a list of expertise needed to assist rural hospitals with HIT</li> <li>Build expertise within the organization or retain consultants</li> <li>Develop tools and resources</li> <li>Customize a rural HIT portal for the NRC web site</li> <li>Develop a compendium of HIT consultants and technical experts for rural health providers</li> </ul>

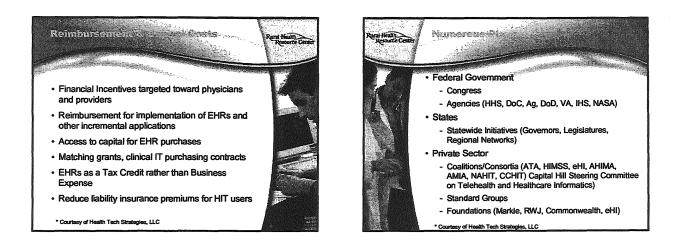


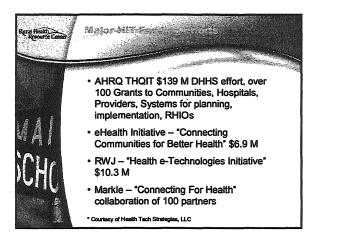


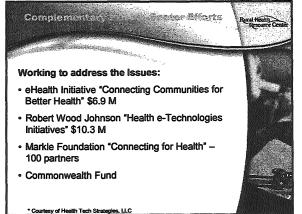
\* Courtesy of Health Tech Strategies, LLC

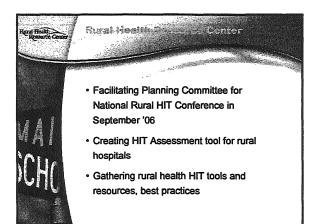


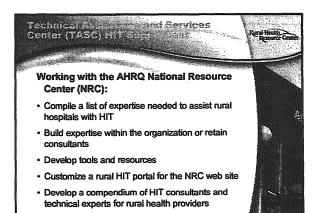














## Tami Lichtenberg Program Manager, Rural Health Resource Center 600 E. Superior St., Suite 404 Duluth, MN 55802 218-727-9390, ext. 230

tlichten@ruralcenter.org



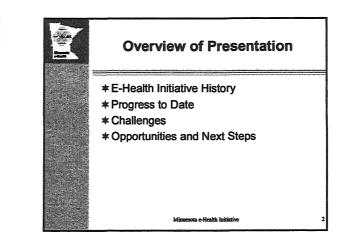
#### Minnesota e-Health Initiative: Update on Progress, Plans, Opportunities

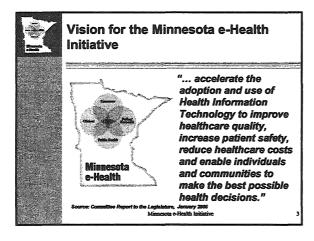
January 17, 2006

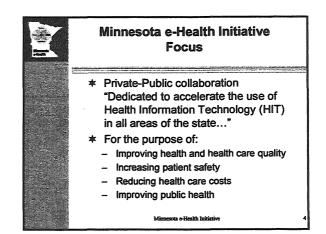
esota e-Health Initia

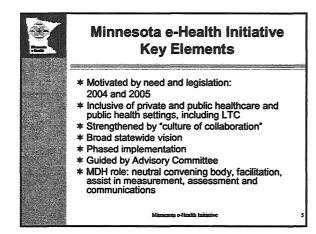
#### Speakers

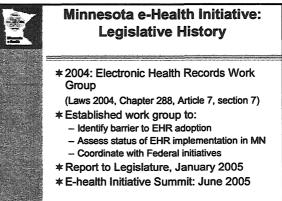
Director, Office of Policy, Star ics and Infe \*Marty LaVenture, MPH PhD Director, Center of He sota Department of Health



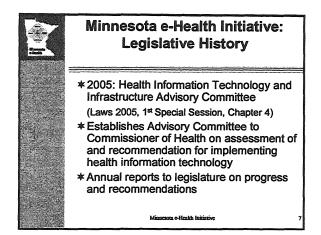


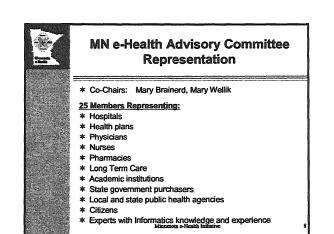


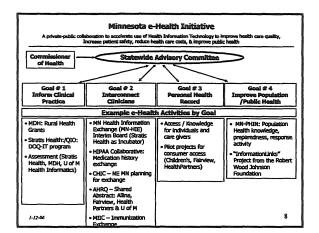


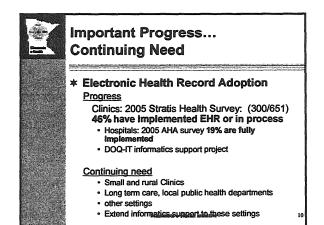


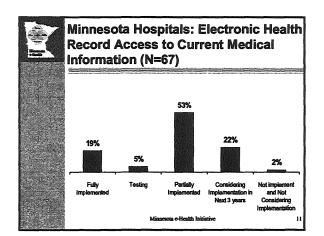
Min ota e-Health Initiativ

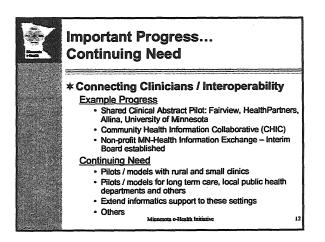




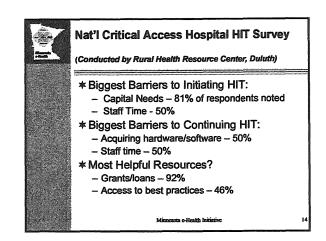


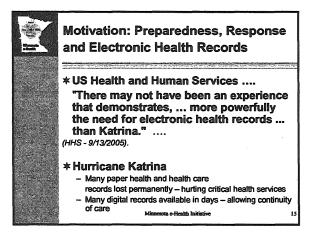




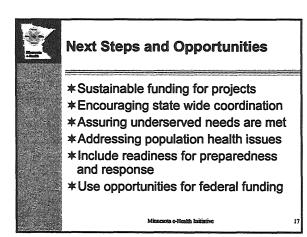


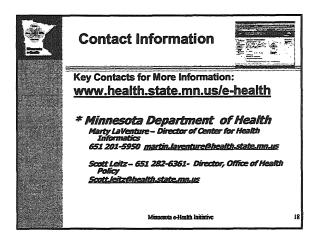
Rural & Safety Net Issues			
Rural Health	Community Clinics		
<ul> <li>HIT can improve quality &amp; coordination across distance coordination across distance.</li> <li>Growing demand &amp; potentia for tele-mental health, tele-homecare, other tele-health services</li> <li>Hospital interest growing, reflected in response to MD grant programs</li> <li>Intermittent broadband access in rural areas</li> <li>Cost &amp; staffing barriers remain</li> </ul>	expensive HIT investments     * Challenges of small scale:         - EHR/IT expensive tough to         recruit     - No clout with vendors		
Minnesota e-Health Initiative			





Stage of Health Information Exchange 2005 Survey* [n=100 projects]					
Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6
12%	= 14%	15%	= 37%	= 12%	•11%
<ul> <li>Recognition of the need for HIE among multiple stakeholdars in your state, region, or community</li> </ul>	<ul> <li>Getting organized</li> <li>Defining shared vision, goala &amp; objectives</li> <li>Identifying funding sources</li> <li>Setting up legal &amp; governance structures</li> </ul>	<ul> <li>plan</li> <li>Defining needs and requirements</li> <li>Securing funding</li> </ul>	implementation - technical, financial, and legal	information	<ul> <li>Demonstration of expansion of organization to encompass a broader coalition of stakeholders than present in the initial operational model</li> </ul>







As you prepare for the joint committee hearings on the "Health Care Solutions Series," we want to remind you of the significant differences between medical and dental benefits administration. These hearings, which begin on January 17, represent an opportunity to focus on important issues related to health care.

Dental benefits and administration are different than medical in terms of cost, economics, use of technology, claim forms, provider delivery, quality measurement and many other aspects. For example, the dental claim form is different than the medical claim form, with the dental form established by the American Dental Association and the medical form established by the federal government. The use of technology by dentists is far lower than their physician counterparts, partly due to the nature of provider delivery. Dentists in Minnesota are overwhelmingly sole practitioners, while most physicians are affiliated with large clinics and hospitals. There are no diagnostic codes for dental, only procedure codes, so quality measurement is far more difficult. The average amount of a medical claim is 12 times higher than the average dental claim. The same variance is applicable to the respective premium costs. The cost drivers in medical — chronic disease, long-term care, and prescription drugs — have little to do with dental costs.

The big cost drivers in medical attract, perhaps appropriately, the most attention and analysis, too. The Buyer's Healthcare Action Group, for example, has no mention of dental on its Web site. The innovative "Minnesota Community Measurement" collaborative includes no dentists or dental experts on its 16-member board and provides no information on the comparative quality of dental providers in Minnesota. These are not criticisms, but facts which support the idea that dental is different and should be treated as such.

We don't want to imply that oral health and overall health are not related — they clearly are. In fact, this relationship is of great interest to us, and we are leading research on how periodontal disease may be linked to chronic health issues like diabetes, heart disease and low-birth weight babies. Dental's proven preventive tradition, provider system, economic models, administrative practices and use of technology are all different. Consequently, a one-size-fits-all solution for medical and dental may not be in the best interest of Minnesota companies, dental consumers or dentists.

The topics set for your series of joint hearings represent important discussions involving what most Minnesotans, employees and employers alike, view as critical economic and societal issues. If there are questions specific to dental, please know we are happy to provide information from our extensive databases and nearly four decades of business experience so that you can make informed decisions.

If you have any questions, please contact Joe Lally, Delta Dental's vice president, at 651-994-5129 or by e-mail at <u>jlally@deltadentalmn.org</u>.

January 2006

## **Report Cards Could Damage Quality of Care**

By Kip Sullivan, J.D.

For more than 30 years, influential groups and individuals have demanded that someone publish grades on the quality of care offered by physicians, hospitals, and health plans. Advocates of managed care and managed competition have been the most prominent proponents of "report cards," as published performance-measurement reports came to be called in the early 1990s. Paul Ellwood, M.D., the Minnesota physician who coined the phrase "health maintenance

nization," has been demanding recards on physicians and health plans for three decades.<sup>1-3</sup> Former President Bill Clinton and the Jackson Hole Group, advocates of managed competition, viewed report cards as an essential feature of such a system.<sup>4-5</sup>

In its 1993 report to the governor and Legislature, the Minnesota Health Care Commission, which was charged with finding ways to contain health care costs, called for "a system which allows for objective, standardized quality comparisons across provider groups and health plans."<sup>6</sup> That same year, the Legislature enacted a law authorizing the Department of Health and the nowdefunct Minnesota Health Data Institute to develop plan and provider recards. Commission member and

er HealthPartners CEO George Halvorson predicted in 1993 that report cards would soon permit patients to "know which health system will give them the best chance of surviving a heart attack."<sup>7</sup> Two years later, Halvorson predicted that "performance records" on numerous types of medical care would be available by 2003.<sup>8</sup>

#### An Abysmal Track Record

Despite all the interest in report cards from politicians, employers, and experts in academia and think tanks, accurate reports on the quality of physicians, clinics, hospitals, and health plans are almost nonexistent. The report card on heart surgeons published annually by the New York Department of Health may be the only regularly published report card that can reasonably be characterized as accurate. Virtually all other report cards and rankings touted by health insurance companies, government agencies, business coalitions, business consultants, magazines, and Internet entrepreneurs either do not attempt to measure quality directly (for example, they report whether a doctor is board-certified, a hospital is highly regarded by physicians, or patients of undetermined health status are "satisfied" with a health plan or clinic), or they measure quality directly but with significant inaccuracy.

The primary reason for the scarcity of accurate report cards is the cost and complexity of "risk adjustment" or "case-mix adjustment"-the adjustment of report card scores to reflect variations in factors outside of plan and provider control, notably patient health status and socioeconomic factors that influence patient careseeking behavior. Accurate measurement of differences in these variables is essential. As Christiansen and Morris put it, "Case-mix adjustments are made ... to account for the differences in provider performance attributable solely to differences in the populations served."" But risk adjustment is expensive because it requires large patient sample sizes, rich clinical data, and, often, socioeconomic information (such as insurance status and income) about patients. (Claims and hospital discharge reports, the basis for all but a few report cards, do not include clinical and socioeconomic data.)

Despite the abysmal track record of the report card movement, and despite the daunting obstacles facing those who seek to publish accurate report cards, the demand for report cards among Minnesota's political and business leaders reached new heights in 2004. In May of that year, the Legislature enacted a bill authorizing the Department of Health to identify "best practices" and to facilitate the production of report cards measuring how well physicians comply with those "practices."10 The new law (Minnesota Statutes 62J.43) also authorizes the Department of Employee Relations to use report cards in making decisions about which plans to make available to state employees and the Department of Human Services to use report cards in deciding which plans low-income Minnesotans will be allowed to enroll in. Last November, the Minnesota Council of Health Plans posted on a Web site (www. mnhealthcare.org) a report card that allegedly measures quality of care for diabetes, asthma, and several other diseases at the medical group level. In

For another view on performance reporting, see "Our Obligation to Report Our Performance to the Public," p. 36.

October 2005 • Minnesota Medicine | 41

#### COMMENTARY

that same month, Gov. Pawlenty announced the formation of the Smart Buy Alliance, a partnership of state government and large employers, which the governor claims will prepare report cards on numerous medical services and use them to steer patients to plans and providers with superior grades."

All three of these actors-the Legislature, the governor, and the Council of Health Plans-claim that public reporting of quality measures will not only improve quality but will also reduce health care costs. In a press release, Gov. Pawlenty specifically cited the Council of Health Plans' recently released report card, which is totally unadjusted for variables outside physician control, as an example of performance reporting that can lead to such results. But these initiatives will, at best, have little impact on quality and, therefore, on cost, and could, at worst, damage quality of care for many patients.

## The Dangers of Report Cards

Report cards could damage quality three ways. First, inaccurate scores could steer patients from superior to inferior clinics and hospitals (either because health plans and self-insured employers refuse to contract with providers falsely categorized as inferior or because patients avoid providers falsely tagged as inferior). But even if report cards are accurate, quality could still be damaged two other ways: by inducing doctors and plans to avoid sicker patients in order to improve their scores and by inducing doctors and plans to shift resources from unmeasured to measured services.

#### Inaccurate Report Cards

As I have already noted, the cost and difficulty of risk-adjusting report cards is a significant obstacle to report card accuracy. Risk adjustment is required of virtually all "outcome" measures, which measure changes in

patient health, and even many "process" measures, which measure how well doctors comply with standards of care. For example, if a report card on heart surgeons uses mortality rate after surgery (an outcome) as the measure of quality, researchers must adjust the measure to reflect differences in patient health. If that is not done, an inferior heart surgeon who treated otherwise healthy patients in their 50s could score higher than a superior surgeon who treated patients in their 70s who suffered from co-morbidities such as cancer and diabetes. If the quality measure used is a process measure, such as the percent of a clinic's diabetic patients who get a cholesterol test annually, researchers must adjust the score for differences in patient health insurance status and income. If that were not done, an inferior clinic with a primarily upperincome and well-insured clientele could score higher than a clinic with a low-income, uninsured clientele simply because more of the former clinic's patients can afford to visit their doctor and have tests done.

But accurate risk adjustment rarely can be done with readily available administrative data. With the exception of a few simple process measures, such as the percentage of elderly patients with at least one doctor visit between Sept. 1 and Jan. 31 who get an influenza vaccination, accurate risk adjustment requires data on patient health status, and often socioeconomic data as well.<sup>12,13</sup> Collecting that data is expensive, even for a report published only once, never mind one published annually. The New York report card on coronary artery bypass graft (CABG) surgeons and hospitals, which adjusts postsurgery mortality rates with 72 measures, nearly all of which require patient medical-records data, requires five full-time staff at the state's Department of Health to maintain a database, as well as a "utilization review agent ... to audit a sample of 50 cases from half the hospitals each

year." Moreover, each of the hospitals graded by the report card must hire a data coordinator, usually full-time, to collect and maintain their databases.<sup>14</sup>

In addition to the cost of riskadjustment, process measures (as opposed to outcome measures) face another obstacle: the need for an agreedupon standard of care that applies to all patients with a given diagnosis. Relative to the thousands of medical services rendered in America today, evidence-based standards are few. The proportion of medical services for which a science-based consensus on standard of care exists is estimated to be no more than 15 percent to 20 percent.<sup>15</sup> According to Landon et al, "[F]ew medical specialties have an evidence base that is robust and comprehensive enough to support PCPA [physician clinical performance assessment]."16

Of course, inaccurate report cards will not steer patients to inferior doctors if patients, employers, and health plans do not rely on report cards, or if the scores are all within the margin of error. But report cards that are not used, or which cannot be helpful to purchasers who try to use them, are not worth their production and publication costs.

**Rejecting Sicker or Poorer Patients** Physicians who do not believe a report card's risk-adjustment method is accurate will be under pressure to get rid of their sicker, poorer, less well-insured, and generally less-compliant patients to avoid having those patients drag their scores down. This is true regardless of whether physician doubts about a report card's accuracy are warranted. To take perhaps the worst example (from the point of view of report-card advocates), many New York surgeons do not trust the CABG report card published annually by the New York Department of Health, even though this report card is so rigorously adjusted it is considered to be the gold standard across the country even by its

critics.<sup>17</sup> Jeffrey Gold, M.D., a Cornell University cardiac surgeon who placed No. 1 on the report card in 1995, told the *New York Times*, "here is nothing that separates me

the rest of the people on the list. ... 1 certainly would not use it as the s ole way of selecting an institution or a surgeon."<sup>18</sup> This distrust appears to be causing New York surgeons to a void sicker patients.<sup>19,20</sup> "There is a Widespread, if unproven, belief among doctors that some of New York State's 1 33 heart surgeons are turning away s everely ill patients for fear a death will hurt their rankings," the New York *Times* reported.<sup>18</sup>

The strongest evidence that sicker Patients are losing access to New York Cardiac surgeons as a result of the re-Port card appeared in 2003 in the Journal of Political Economy. The article, co-authored by Mark McClel-

Aedicare and Medicaid Services, Concluded, "Taken together, our re-Sults show that [CABG] report cards l ed to . . . marginal health benefits for healthy patients, and major adverse health consequences for sicker patients."21 The authors noted that their findings contradicted two earlier studies that attributed a decline in CABGassociated mortality rates in New York to the CABG report card. McClellan and his co-authors attributed the difference to the fact that their Study examined all patients eligible for CABG surgery, whereas the earlier Studies had examined only those patients who actually received CABG Surgery.21

Hofer et al reached a similar conion about a widely used measure
 quality of diabetes care—the per centage of patients with hemoglobin
 A1c below certain levels. (This is one
 of the measures used in the Minnesota
 Council of Health Plans' report card.)
 The authors concluded: "Ideally, full
 case-mix models would eliminate or
 reduce the perverse incentive for
 physicians to manipulate profiles by

electing not to care for sick patients. However, [we found that] if those physicians with the worst profiles ... for 1991 managed to discourage the patients with the top 5 percent of HbA1c levels (representing only one to three patients per physician) from returning to their panel, they would in most cases achieve a panel HbA1c profile in 1992 that would be substantially improved. ... Manipulating their patient pool, based on a patient's prior year HbA1c level, is the easiest way for physicians to have a substantial improvement in their profile."<sup>22</sup>

If rigorously adjusted report cards can induce physicians to reject sicker patients, obviously poorly or completely unadjusted report cards would have the same effect. Shen found that when Maine began paying its substance abuse providers on a "pay-forperformance" basis with no risk adjustment of the quality measures, providers quickly rid themselves of their "greatest severity" patients "in order to improve their performance outcomes."<sup>23</sup>

#### **Resource Shifting**

It is human nature to shift resources away from activities that are not rewarded to those that are. Isn't this why teachers do not tell students what questions will appear on examinations? Report cards on quality of care will probably damage the quality of care for patients by inducing plans and providers to shift resources from unmeasured services to measured services. This would not occur, of course, if report-card publishers released report cards on the 10,000-plus medical services available today. But that, it is safe to predict, will never happen.

This "teaching to the test" phenomenon (in a medical context, perhaps it should be called "practicing to the report card") has attracted little research. But what evidence there is indicates plans and providers do shift resources away from unmeasured services. Lee-Feldstein et al uncovered such evidence in the course of investigating whether HMO physicians detected breast and colorectal cancer in Medicare patients earlier than fee-forservice physicians. They discovered that HMO patients were much more likely to have breast cancer detected early, but fee-for-service patients were much more likely to have colorectal cancer diagnosed early. The authors noted that the nation's most pervasive HMO report card, the Health Plan Employer Data Set (HEDIS), published by the National Committee for Quality Assurance, graded HMOs on mammography rates but not on a corresponding screening for colorectal cancer. "This suggests that preventive screening for conditions such as colorectal cancer that are not required to be in a report card (such as HEDIS) are more likely to be neglected," the authors concluded.24

**Reports on Numbers of Procedures** It is important to distinguish public information on the number of procedures a hospital or physician performs from report cards that purport to measure quality directly. A report on numbers of procedures performed can be a useful guide to quality if the procedure in question is one of a dozen for which a volume-quality correlation has been shown. Pancreatic cancer surgery and coronary bypass surgery are examples of such procedures.<sup>25</sup>

It is easy to achieve accuracy in numbers-of-procedures reports. One need only count up the number of operations done each year. Doctors might disagree with studies that show a volume-quality correlation for a given procedure, but they can have no doubt about the accuracy of volumeof-procedure counts themselves and, therefore, would have no incentive to refuse services to sicker patients. And by funneling patients to fewer highvolume hospitals, number-of-procedure reports might free up resources for patients in need of unmeasured services.

## Faith-Based Health Policy, Evidence-Based Medicine

Gov. Pawlenty, the Legislature, the Council of Health Plans, and some members of the business community have created high expectations for report cards and the "value purchasing" of health insurance and medical care that they allegedly facilitate. But these expectations are doomed to be unmet. The odds that report cards will improve overall quality of medical care are slim, and the odds that whatever quality improvement occurs will lead to a net reduction in health care costs are probably zero. Under the rosiest scenario, all the money now being spent to promote "best practices," "value purchasing," and measurable outcomes will produce a few accurate (which is to say expensive) report cards. These report cards will improve quality for the relatively few patients receiving the measured services, and the net effect on cost will be negligible. Under the worst scenario, the Smart Buy Alliance and other report-card advocates will succeed in pushing numerous inaccurate report cards into the public limelight, and the net effect on quality and cost will be negative.

Before the report-card project proceeds any further, promoters of report cards should undertake the research necessary to determine whether public reporting of health plan and provider performance is a safe and effective means of improving quality. That would require that report-card proponents apply to themselves the "evidence-based" standards they apply to doctors. The Council of Health Plans and others insist that doctors practice "evidence-based medicine," but they are unwilling to practice "evidence-based health policy." Report-card enthusiasts are willing, on the basis of very little evidence, to endorse a health policy that could turn out to be very expensive and damaging to health. That is the antithesis of evidence-based health policy.

If report cards were a new, untested

prescription drug, Minnesota's health insurance industry and its allies in the Legislature and the governor's office would be insisting that the "drug" undergo rigorous testing on a very tiny fraction of the population before the entire population was exposed to it. Report cards may not be the next thalidomide, but they are expensive and they do pose risks to patients. These risks should be acknowledged, discussed, and studied, not ignored.

Evidence-based health policy calls for continued research on report cards using small numbers of patients and providers to determine whether report cards are safe and effective, and, if they are, whether their effectiveness is greater than other methods of quality improvement such as altering factors outside physicians' control (eg, reducing prescription drug prices and providing insurance to all) that prevent millions of Americans from getting high-quality medical care; investing in randomized controlled trials and collaborative research among physicians; and ending the nurse shortage. When that research has been completed, then and only then should report cards be published on a wholesale basis. MM

#### Kip Sullivan is a member of the steering committee of the Minnesota Universal Health Care Coalition.

REFERENCES

1. Ellwood PM, Anderson NN, Billings JE, Carlson RJ, Hoagberg EJ, McClure W. Health maintenance strategy. Med Care. 1971;9:291-8.

2. Ellwood PM. A technology of patient experience. New Engl J Med. 1988;318: 1549-56.

3. Ellwood PM, Lundberg GD. Managed care: A work in progress. JAMA. 1996;276:1083-6.

4. Epstein AM. Changes in the delivery of care under comprehensive health care reform. New Engl J Med. 1993;329:1672-6. 5. Ellwood PM, Enthoven AC, Etheridge L. The Jackson Hole initiatives for a Twenty-First Century American health care system. Health Econ. 1992;1:149-68.

6. Minnesota Health Care Commission, Containing Costs in Minnesota's Health Care System: A Report to Governor Arne H. Carlson and the Minnesota Legislature, Jan. 25, 1993. 7. Majeski T. Panel gets logistics, impact of health plan. St. Paul Pioneer Press. Jan. 10, 1993:2B.

 Wascoe D. Health care competition sharpening. Star Tribune Jan. 25, 1995:7B.
 Christiansen CL, Morris CN. Improving the statistical approach to health care provider profiling. Ann Intern Med. 1997;127:764-76, 64-5.

10. Robeznieks A. Minn. looks for statewide 'best practices.' American Medical News. June 28, 2004:14.

11. Lopez P. Pawlenty tackles health care. Star Tribune. Nov. 30, 2004:A1.

12. Friedman C, Ahmed F, Franks A, et al. Association between health insurance coverage of office visit and cancer screening among women. Med Care. 2002;11:1060-7. 13. Carlisle DM, Leake BD. Differences in the effect of patients' socioeconomic status on the use of invasive cardiovascular procedures across health insurance categories. Am J Public Health. 1998;88:1089-92.

14. Hannan EL, Stone CC, Biddle TL, DeBuono BA. Public release of cardiac surgery outcomes data in New York: What do New York state cardiologists think of it? Am Heart J. 1997;134:55-61, 62.

15. Shekelle PG, Kahan JP, Bernstein SJ, Leape LL, Kamberg CJ, Park RE. The reproducibility of a method to identify the overuse and underuse of medical procedures. New Engl J Med. 1998;338:1888-95.

16. Landon BE, Normand ST, Blumethal D, Daley J. Physician clinical performance assessment. JAMA. 2003;290:1183-9.

17. Greenfield J, Wintfeld N. Report cards on cardiac surgeons: Assessing New York State's approach. New Engl J Med. 1995;332(18):1229-32.

18. Bumiller E. Death-rankings shake New York cardiac surgeons. New York Times. Sept. 6, 1995:A7.

19. Omoigui NA, Miller DP, Brown KJ, et al. Outmigration for coronary bypass surgery in an era of public dissemination of clinical outcomes. Circulation. 1996;93: 27-33

20. Jauhar S. When doctors slam the door. New York Times Magazine. March 16, 2003:32.

21. Dranove D, Kessler D, McClellan M, Satterthwaite M. Is more information better? The effects of "report cards" on health care providers. J Pol Econ. 2003;111:555-88, 577.

22. Hofer TP, Hayward RA, Greenfield S, Wagner EH, Kaplan SH, Manning WG. The unreliability of individual physician 'report cards' for assessing the costs and quality of care of a chronic disease. JAMA. 1999;281:2098-2105.

23. Shen Y. Selection incentives in a performance-based contracting system. Health Serv Res. 2003;38:535-52, 535.

24. Lee-Feldstein A, Feldstein PJ, Buchmueller T. Health care factors related to stage at diagnosis and survival among Medicare patients with colorectal cancer. Med Care. 2002;40:362-74, 374.

25. Kizer KW. The volume-outcome conundrum. New Engl J Med. 2003;349:2159-61.

## Statement of Susan Hasti, MD, Vice Chair, Minnesota Universal Health Care Coalition, to the Joint Senate Health and Family Security Committee and House Health Care Cost Containment Division, January 17, 2006

The Minnesota Universal Health Care Coalition is dedicated to universal health insurance as well as effective methods of reducing the health care inflation that has had such a destructive effect on our health care system, the state budget, and the state's economy. We believe universal health insurance should not be achieved at any cost, but should, rather, be implemented along with effective cost containment.

By "effective cost containment," I mean methods that reduce health care inflation immediately or in the near term, not decades from now, and which do not harm patients. The proposals about which the joint committee is taking testimony today do not fit this definition of effective cost containment.

In determining what constitutes an effective method of cost containment, we urge this committee to use the equivalent of the standard the Legislature expects doctors to use in making medical decisions, namely, the standard that has come to be known as "evidence-based medicine." We urge the Legislature to honor a standard that might be called "evidence-based health policy." The proposals listed on the agenda for today's hearing do not meet that standard. Therefore, they should not be styled as "solutions," and they should not be imposed or subsidized on a large scale by the Legislature. They should be treated as the equivalent of a new drug that has been shown to have some promise and to present some risk to patients. That is, they should be studied on a small scale and not endorsed or subsidized until they have been proven to be effective.

The proposals on the committee's agenda today are essentially two: information technology (including electronic medical records), and report cards. We have little doubt that information technology (IT) has already cut the cost of administrative tasks such as claim processing and appointment scheduling. And we think it is reasonable to expect that IT will some day cut costs in other areas, such as ordering and administering prescription drugs. But current research on the role of IT in medical care, including EMRs, does not allow us to conclude that IT can reduce health care costs, either directly or indirectly by improving health.

Similarly, existing research does not support the claim that report cards can reduce costs by improving quality. In fact, research has demonstrated that some report cards are harming sicker patients because they encourage doctors to avoid them for fear their "grades" will be dragged down by the below-average outcomes of sicker patients.

I urge this committee to allow MUHCC to testify at your January 31 hearing. We would use that opportunity to review the scientific literature that supports our arguments and to outline briefly several cost-containment methods that deserve to be called "effective." We would also like to use that opportunity to comment on the evidence supporting claims for "disease management," a topic on your January 31 agenda. In the meantime, on the attached page we submit to you quotations from studies that document my statements.

Thank you.

#### **EMRs and IT**

"With the exception of pharmacy settings, there is little consistent evidence that IT [information technology] systems save time for providers. In some instances, the literature suggests the reverse." Medicare Payment Advisory Commission, *Report to Congress: New Approaches in Medicare*, June 2004, 163.

"Only 13% of [100] trials evaluated the impact of the CDSS [clinical decision support systems] on clinician workflow, with more than half of these CDSSs requiring more time and effort from the user compared with paper-based methods." Amit X. Garg et al., "Effects of computerized clinical decision support systems on practitioner performance and patient outcomes: A systematic review," *Journal of the American Medical Association* 2005;293:1223-1238, 1226.

"Fifty-two trials [of clinical decision support systems] assessed patient outcomes .... Only 7 trials reported improved patient outcomes. . . ." Amit X. Garg et al., op cit., 1231.

"In 2001, the Agency for Healthcare Research and Quality ... determined that 14 safety practices had greater strength of evidence regarding their impact and effectiveness than any practice which relied on IT. These include such low-cost items as appropriate provision of nutrition ... and use of maximum sterile barriers while placing central intravenous catheters to prevent infections." Medicare Payment Advisory Commission, *Report to Congress: New Approaches in Medicare*, June 2004, 162.

#### **Report Cards**

"Performance-based contracting gave providers of substance abuse treatment financial incentives to treat less severe OSA [Office of Substance Abuse] clients in order to improve their performance outcomes. Fewer OSA clients with the greatest severity were treated in outpatient programs with the implementation of PBC [performance-based contracting]."

Yujing Shen ("Selection incentives in a performance-based contracting system," *Health Services Research* 2003;38:535-552, 535).

"[M]andatory reporting mechanisms inevitably give providers the incentive to decline to treat more difficult and complicated patients" (p. 581). "[O]ur results show that report cards [on heart surgeons] led to increased expenditures for both healthy and sick patients, marginal health benefits for healthy patients, and major adverse health consequences for sicker patients. Thus, we conclude that report cards reduced our measure of welfare over the time period of our study" (p. 577). "[M]ore severely ill ... patients experienced dramatically worsened health outcomes" (p. 583). David Dranove et al. "Is more information better? The effects of 'report cards' on health care providers," *Journal of Political Economy* 2003;111:555-588.

"Report cards led to a decline in the illness severity of patients receiving CABG in New York ... relative to patients in states without report cards" (p. 583).

David Dranove et al. ("Is more information better? The effects of 'report cards' on health care providers," *Journal of Political Economy* 2003;111:555-588)

## **Disease Management**

"Results of this study show that it is possible to increase SFDs [symptom free days] in children [with asthma].... However, the improvements were realized with an increase in the costs associated with asthma care."

Archives of Pediatrics and Adolescent Medicine (S.D. Sullivan et al., "A multisite randomized trial of the effects of physician education and organizational change in chronic asthma care: Cost-effectiveness analysis of the Pediatric Asthma Care Patient Outcomes Research Team II (PAC-PORT II)," 2005;159:428-434, 428).

"Although interest in ... disease management programs is growing, evidence of their clinical and cost effectiveness remains limited. ... Without many attractive alternative mechanisms to control costs, many employers are adopting disease management despite the lack of evidence."

Center for Studying Health System Change (Ashley Short et al., "Disease management: A leap of faith to lower-cost, higher-quality health care," October 2003, Issue Brief No. 69, 3)

"On the basis of its examination of peer-reviewed studies of disease management programs..., CBO finds that to date there is insufficient evidence to conclude that disease management programs can generally reduce the overall cost of health care services."

Congressional Budget Office (*An Analysis of the Literature on Disease Management Programs*, October 13, 2004, http://www.cbo.gov/showdoc.cfm?index= 5909&sequence=0, accessed September 25, 2005)

## **Report Cards Could Damage Quality of Care**

lic reporting on quality may lead physicians to avoid the sickest patients and channel resources to services that measured.

By Kip Sullivan, J.D.

For more than 30 years, influential groups and individuals have demanded that someone publish grades on the quality of care offered by physicians, hospitals, and health plans. Advocates of managed care and managed competition have been the most prominent proponents of "report cards," as published performance-measurement reports came to be called in the early 1990s. Paul Ellwood, M.D., the Minnesota physician who coined the phrase "health maintenance anization," has been demanding re-

cards on physicians and health <sub>P-ans</sub> for three decades.<sup>1-3</sup> Former President Bill Clinton and the Jackson Hole Group, advocates of managed competition, viewed report cards as an essential feature of such a system.<sup>4-5</sup>

In its 1993 report to the governor and Legislature, the Minnesota Health Care Commission, which was charged with finding ways to contain health care costs, called for "a system which allows for objective, standardized quality comparisons across provider groups and health plans."<sup>6</sup> That same year, the Legislature enacted a law authorizing the Department of Health and the nowdefunct Minnesota Health Data Institute to develop plan and provider report cards. Commission member and

er HealthPartners CEO George ....vorson predicted in 1993 that report cards would soon permit patients to "know which health system will give them the best chance of surviving a heart attack."<sup>7</sup> Two years later, Halvorson predicted that "performance records" on numerous types of medical care would be available by 2003.<sup>8</sup>

#### An Abysmal Track Record

Despite all the interest in report cards from politicians, employers, and experts in academia and think tanks, accurate reports on the quality of physicians, clinics, hospitals, and health plans are almost nonexistent. The report card on heart surgeons published annually by the New York Department of Health may be the only regularly published report card that can reasonably be characterized as accurate. Virtually all other report cards and rankings touted by health insurance companies, government agencies, business coalitions, business consultants, magazines, and Internet entrepreneurs either do not attempt to measure quality directly (for example, they report whether a doctor is board-certified, a hospital is highly regarded by physicians, or patients of undetermined health status are "satisfied" with a health plan or clinic), or they measure quality directly but with significant inaccuracy.

The primary reason for the scarcity of accurate report cards is the cost and complexity of "risk adjustment" or "case-mix adjustment"-the adjustment of report card scores to reflect variations in factors outside of plan and provider control, notably patient health status and socioeconomic factors that influence patient careseeking behavior. Accurate measurement of differences in these variables is essential. As Christiansen and Morris put it, "Case-mix adjustments are made ... to account for the differences in provider performance attributable solely to differences in the populations served."' But risk adjustment is expensive because it requires large patient sample sizes, rich clinical data, and, often, socioeconomic information (such as insurance status and income) about patients. (Claims and hospital discharge reports, the basis for all but a few report cards, do not include clinical and socioeconomic data.)

Despite the abysmal track record of the report card movement, and despite the daunting obstacles facing those who seek to publish accurate report cards, the demand for report cards among Minnesota's political and business leaders reached new heights in 2004. In May of that year, the Legislature enacted a bill authorizing the Department of Health to identify "best practices" and to facilitate the production of report cards measuring how well physicians comply with those "practices."10 The new law (Minnesota Statutes 62J.43) also authorizes the Department of Employee Relations to use report cards in making decisions about which plans to make available to state employees and the Department of Human Services to use report cards in deciding which plans low-income Minnesotans will be allowed to enroll in. Last November, the Minnesota Council of Health Plans posted on a Web site (www. mnhealthcare.org) a report card that allegedly measures quality of care for diabetes, asthma, and several other diseases at the medical group level. In

For another view on performance reporting, see "Our Obligation to Report Our Performance to the Public," p. 36.

October 2005 • Minnesota Medicine | 41

#### COMMENTARY

that same month, Gov. Pawlenty announced the formation of the Smart Buy Alliance, a partnership of state government and large employers, which the governor claims will prepare report cards on numerous medical services and use them to steer patients to plans and providers with superior grades.<sup>11</sup>

All three of these actors-the Legislature, the governor, and the Council of Health Plans-claim that public reporting of quality measures will not only improve quality but will also reduce health care costs. In a press release, Gov. Pawlenty specifically cited the Council of Health Plans' recently released report card, which is totally unadjusted for variables outside physician control, as an example of performance reporting that can lead to such results. But these initiatives will, at best, have little impact on quality and, therefore, on cost, and could, at worst, damage quality of care for many patients.

#### The Dangers of Report Cards

Report cards could damage quality three ways. First, inaccurate scores could steer patients from superior to inferior clinics and hospitals (either because health plans and self-insured employers refuse to contract with providers falsely categorized as inferior or because patients avoid providers falsely tagged as inferior). But even if report cards are accurate, quality could still be damaged two other ways: by inducing doctors and plans to avoid sicker patients in order to improve their scores and by inducing doctors and plans to shift resources from unmeasured to measured services.

#### Inaccurate Report Cards

As I have already noted, the cost and difficulty of risk-adjusting report cards is a significant obstacle to report card accuracy. Risk adjustment is required of virtually all "outcome" measures, which measure changes in

patient health, and even many "process" measures, which measure how well doctors comply with standards of care. For example, if a report card on heart surgeons uses mortality rate after surgery (an outcome) as the measure of quality, researchers must adjust the measure to reflect differences in patient health. If that is not done, an inferior heart surgeon who treated otherwise healthy patients in their 50s could score higher than a superior surgeon who treated patients in their 70s who suffered from co-morbidities such as cancer and diabetes. If the quality measure used is a process measure, such as the percent of a clinic's diabetic patients who get a cholesterol test annually, researchers must adjust the score for differences in patient health insurance status and income. If that were not done, an inferior clinic with a primarily upperincome and well-insured clientele could score higher than a clinic with a low-income, uninsured clientele simply because more of the former clinic's patients can afford to visit their doctor and have tests done.

But accurate risk adjustment rarely can be done with readily available administrative data. With the exception of a few simple process measures, such as the percentage of elderly patients with at least one doctor visit between Sept. 1 and Jan. 31 who get an influenza vaccination, accurate risk adjustment requires data on patient health status, and often socioeconomic data as well.<sup>12,13</sup> Collecting that data is expensive, even for a report published only once, never mind one published annually. The New York report card on coronary artery bypass graft (CABG) surgeons and hospitals, which adjusts postsurgery mortality rates with 72 measures, nearly all of which require patient medical-records data, requires five full-time staff at the state's Department of Health to maintain a database, as well as a "utilization review agent ... to audit a sample of 50 cases from half the hospitals each year." Moreover, each of the hospitals graded by the report card must hire a data coordinator, usually full-time, to collect and maintain their databases.<sup>14</sup>

In addition to the cost of riskadjustment, process measures (as opposed to outcome measures) face another obstacle: the need for an agreedupon standard of care that applies to all patients with a given diagnosis. Relative to the thousands of medical services rendered in America today. evidence-based standards are few. The proportion of medical services for which a science-based consensus on standard of care exists is estimated to be no more than 15 percent to 20 percent.<sup>15</sup> According to Landon et al, "[F]ew medical specialties have an evidence base that is robust and comprehensive enough to support PCPA [physician clinical performance assessment]."16

Of course, inaccurate report cards will not steer patients to inferior doctors if patients, employers, and health plans do not rely on report cards, or if the scores are all within the margin of error. But report cards that are not used, or which cannot be helpful to purchasers who try to use them, are not worth their production and publication costs.

**Rejecting Sicker or Poorer Patients** Physicians who do not believe a report card's risk-adjustment method is accurate will be under pressure to get rid of their sicker, poorer, less well-insured, and generally less-compliant patients to avoid having those patients drag their scores down. This is true regardless of whether physician doubts about a report card's accuracy are warranted. To take perhaps the worst example (from the point of view of report-card advocates), many New York surgeons do not trust the CABG report card published annually by the New York Department of Health, even though this report card is so rigorously adjusted it is considered to be the gold standard across the country even by its

critics.<sup>17</sup> Jeffrey Gold, M.D., a Cornell University cardiac surgeon who placed No. 1 on the report card in 1 995, told the New York Times, <sup>¬</sup>]here is nothing that separates me m the rest of the people on the list. ... I certainly would not use it as the s ole way of selecting an institution or a surgeon."18 This distrust appears to be causing New York surgeons to a void sicker patients.<sup>19,20</sup> "There is a widespread, if unproven, belief among doctors that some of New York State's 1 33 heart surgeons are turning away severely ill patients for fear a death will hurt their rankings," the New York Times reported.18

The strongest evidence that sicker Patients are losing access to New York Cardiac surgeons as a result of the re-Port card appeared in 2003 in the Journal of Political Economy. The article, co-authored by Mark McClel-

n, the current director of the Centers : Medicare and Medicaid Services, Concluded, "Taken together, our re-Sults show that [CABG] report cards led to . . . marginal health benefits for healthy patients, and major adverse health consequences for sicker patients."21 The authors noted that their £indings contradicted two earlier studi es that attributed a decline in CABGassociated mortality rates in New York to the CABG report card. McClellan and his co-authors attributed the difference to the fact that their Study examined all patients eligible for CABG surgery, whereas the earlier Studies had examined only those patients who actually received CABG Surgery.21

Hofer et al reached a similar conision about a widely used measure of quality of diabetes care—the percentage of patients with hemoglobin Alc below certain levels. (This is one of the measures used in the Minnesota Council of Health Plans' report card.) The authors concluded: "Ideally, full case-mix models would eliminate or reduce the perverse incentive for physicians to manipulate profiles by electing not to care for sick patients. However, [we found that] if those physicians with the worst profiles ... for 1991 managed to discourage the patients with the top 5 percent of HbA1c levels (representing only one to three patients per physician) from returning to their panel, they would in most cases achieve a panel HbA1c profile in 1992 that would be substantially improved. ... Manipulating their patient pool, based on a patient's prior year HbA1c level, is the easiest way for physicians to have a substantial improvement in their profile."<sup>22</sup>

If rigorously adjusted report cards can induce physicians to reject sicker patients, obviously poorly or completely unadjusted report cards would have the same effect. Shen found that when Maine began paying its substance abuse providers on a "pay-forperformance" basis with no risk adjustment of the quality measures, providers quickly rid themselves of their "greatest severity" patients "in order to improve their performance outcomes."<sup>23</sup>

#### **Resource Shifting**

It is human nature to shift resources away from activities that are not rewarded to those that are. Isn't this why teachers do not tell students what questions will appear on examinations? Report cards on quality of care will probably damage the quality of care for patients by inducing plans and providers to shift resources from unmeasured services to measured services. This would not occur, of course, if report-card publishers released report cards on the 10,000-plus medical services available today. But that, it is safe to predict, will never happen.

This "teaching to the test" phenomenon (in a medical context, perhaps it should be called "practicing to the report card") has attracted little research. But what evidence there is indicates plans and providers do shift resources away from unmeasured services. Lee-Feldstein et al uncovered

such evidence in the course of investigating whether HMO physicians detected breast and colorectal cancer in Medicare patients earlier than fee-forservice physicians. They discovered that HMO patients were much more likely to have breast cancer detected early, but fee-for-service patients were much more likely to have colorectal cancer diagnosed early. The authors noted that the nation's most pervasive HMO report card, the Health Plan Employer Data Set (HEDIS), published by the National Committee for Quality Assurance, graded HMOs on mammography rates but not on a corresponding screening for colorectal cancer. "This suggests that preventive screening for conditions such as colorectal cancer that are not required to be in a report card (such as HEDIS) are more likely to be neglected," the authors concluded.24

#### **Reports on Numbers of Procedures**

It is important to distinguish public information on the number of procedures a hospital or physician performs from report cards that purport to measure quality directly. A report on numbers of procedures performed can be a useful guide to quality if the procedure in question is one of a dozen for which a volume-quality correlation has been shown. Pancreatic cancer surgery and coronary bypass surgery are examples of such procedures.<sup>25</sup>

It is easy to achieve accuracy in numbers-of-procedures reports. One need only count up the number of operations done each year. Doctors might disagree with studies that show a volume-quality correlation for a given procedure, but they can have no doubt about the accuracy of volumeof-procedure counts themselves and, therefore, would have no incentive to refuse services to sicker patients. And by funneling patients to fewer highvolume hospitals, number-of-procedure reports might free up resources for patients in need of unmeasured services.

## Faith-Based Health Policy, Evidence-Based Medicine

Gov. Pawlenty, the Legislature, the Council of Health Plans, and some members of the business community have created high expectations for report cards and the "value purchasing" of health insurance and medical care that they allegedly facilitate. But these expectations are doomed to be unmet. The odds that report cards will improve overall quality of medical care are slim, and the odds that whatever quality improvement occurs will lead to a net reduction in health care costs are probably zero. Under the rosiest scenario, all the money now being spent to promote "best practices," "value purchasing," and measurable outcomes will produce a few accurate (which is to say expensive) report cards. These report cards will improve quality for the relatively few patients receiving the measured services, and the net effect on cost will be negligible. Under the worst scenario, the Smart Buy Alliance and other report-card advocates will succeed in pushing numerous inaccurate report cards into the public limelight, and the net effect on quality and cost will be negative.

Before the report-card project proceeds any further, promoters of report cards should undertake the research necessary to determine whether public reporting of health plan and provider performance is a safe and effective means of improving quality. That would require that report-card proponents apply to themselves the "evidence-based" standards they apply to doctors. The Council of Health Plans and others insist that doctors practice "evidence-based medicine," but they are unwilling to practice "evidence-based health policy." Report-card enthusiasts are willing, on the basis of very little evidence, to endorse a health policy that could turn out to be very expensive and damaging to health. That is the antithesis of evidence-based health policy.

If report cards were a new, untested

prescription drug, Minnesota's health insurance industry and its allies in the Legislature and the governor's office would be insisting that the "drug" undergo rigorous testing on a very tiny fraction of the population before the entire population was exposed to it. Report cards may not be the next thalidomide, but they are expensive and they do pose risks to patients. These risks should be acknowledged, discussed, and studied, not ignored.

Evidence-based health policy calls for continued research on report cards using small numbers of patients and providers to determine whether report cards are safe and effective, and, if they are, whether their effectiveness is greater than other methods of quality improvement such as altering factors outside physicians' control (eg, reducing prescription drug prices and providing insurance to all) that prevent millions of Americans from getting high-quality medical care; investing in randomized controlled trials and collaborative research among physicians; and ending the nurse shortage. When that research has been completed, then and only then should report cards be published on a wholesale basis.

#### Kip Sullivan is a member of the steering committee of the Minnesota Universal Health Care Coalition.

REFERENCES

1. Ellwood PM, Anderson NN, Billings JE, Carlson RJ, Hoagberg EJ, McClure W. Health maintenance strategy. Med Care. 1971;9:291-8.

2. Ellwood PM. A technology of patient experience. New Engl J Med. 1988;318: 1549-56.

3. Ellwood PM, Lundberg GD. Managed care: A work in progress. JAMA. 1996;276:1083-6.

4. Epstein AM. Changes in the delivery of care under comprehensive health care reform. New Engl J Med. 1993;329:1672-6. 5. Ellwood PM, Enthoven AC, Etheridge L. The Jackson Hole initiatives for a Twenty-First Century American health care system. Health Econ. 1992;1:149-68.

6. Minnesota Health Care Commission, Containing Costs in Minnesota's Health Care System: A Report to Governor Arne H. Carlson and the Minnesota Legislature, Jan. 25, 1993. 7. Majeski T. Panel gets logistics, impact of health plan. St. Paul Pioneer Press. Jan. 10, 1993:2B.

 Wascoe D. Health care competition sharpening. Star Tribune Jan. 25, 1995:7B.
 Christiansen CL, Morris CN. Improving the statistical approach to health care provider profiling. Ann Intern Med. 1997;127:764-76, 64-5.

10. Robeznieks A. Minn. looks for statewide 'best practices.' American Medical News. June 28, 2004:14.

11. Lopez P. Pawlenty tackles health care. Star Tribune. Nov. 30, 2004:A1.

12. Friedman C, Ahmed F, Franks A, et al. Association between health insurance coverage of office visit and cancer screening among women. Med Care. 2002;11:1060-7. 13. Carlisle DM, Leake BD. Differences in the effect of patients' socioeconomic status on the use of invasive cardiovascular procedures across health insurance categories. Am J Public Health. 1998;88:1089-92.

14. Hannan EL, Stone CC, Biddle TL, DeBuono BA. Public release of cardiac surgery outcomes data in New York: What do New York state cardiologists think of it? Am Heart J. 1997;134:55-61, 62.

15. Shekelle PG, Kahan JP, Bernstein SJ, Leape LL, Kamberg CJ, Park RE. The reproducibility of a method to identify the overuse and underuse of medical procedures. New Engl J Med. 1998;338:1888-95.

16. Landon BE, Normand ST, Blumethal D, Daley J. Physician clinical performance assessment. JAMA. 2003;290:1183-9.

17. Greenfield J, Wintfeld N. Report cards on cardiac surgeons: Assessing New York State's approach. New Engl J Med. 1995;332(18):1229-32.

18. Bumiller E. Death-rankings shake New York cardiac surgeons. New York Times. Sept. 6, 1995:A7.

19. Omoigui NA, Miller DP, Brown KJ, et al. Outmigration for coronary bypass surgery in an era of public dissemination of clinical outcomes. Circulation. 1996;93: 27-33

20. Jauhar S. When doctors slam the door. New York Times Magazine. March 16, 2003:32.

21. Dranove D, Kessler D, McClellan M, Satterthwaite M. Is more information better? The effects of "report cards" on health care providers. J Pol Econ. 2003;111:555-88, 577.

22. Hofer TP, Hayward RA, Greenfield S, Wagner EH, Kaplan SH, Manning WG. The unreliability of individual physician 'report cards' for assessing the costs and quality of care of a chronic disease. JAMA. 1999;281:2098-2105.

23. Shen Y. Selection incentives in a performance-based contracting system. Health Serv Res. 2003;38:535-52, 535.

24. Lee-Feldstein A, Feldstein PJ, Buchmueller T. Health care factors related to stage at diagnosis and survival among Medicare patients with colorectal cancer. Med Care. 2002;40:362-74, 374.

25. Kizer KW. The volume-outcome conundrum. New Engl J Med. 2003;349:2159-61.

VOIUME AIA, NO. 7 October 2005

Physician The Independent Medical Business Newspaper

NNESOLU

# **Are we there yet?** *Reviewing the evidence for EMRs*

## By Kip Sullivan, J.D.

It does not occur to the average physician to lecture General Mills on how to make corn flakes. Toyota on how to make cars, or

liticians, professors, and pundits on how lo their jobs. But legions of people who ave never examined a patient—including many business executives, politicians, professors, and members of the media—think nothing of lecturing doctors on how to practice medicine. For most of the last quarter century, the sermons delivered by these non-physicians (and a few physicians who went over to the Dark Side) harped on the need for doctors to reconcile themselves to oversight by managed care plans.

When it became clear in the late 1990s that managed care had failed, the sermon changed. Now the dominant message physicians are hearing from the non-physicians in the peanut gallery is that they must embrace "information technology" (IT). IT refers to any process that relies on computers to store, process, and transfer information. Because the fantastic claims being made for IT rely heavily on physician adoption of electronic medical records (EMRs), the most fundamental demand from the peanut gallery is that physicians buy the hardware and software necessary to convert from paper records to EMRs.

Physicians, including the 80 percent to 90 percent who have not converted to EMRs (Tyler Chin, "Are physicians at the infotech tipping point?" *American Medical News*, March 14, 2005, 16; Richard H. Hillestad et al., "Can electronic medical record systems transform health care? Potential health bene-

ARE WE THERE YET? to page 10

# **Bioethics: A** discipline that's here to stay Improving care across settings

By Jeffrey Kahn, Ph.D., and Dianne Bartels, Ph.D., R.N.

rior to 1985, bioethics education in the health sciences at the University of Minnesota. consisted of a spring quarter lecture. series sponsored by the multidisciplinary Student Committee on Bioethics. The lectures were not providing the ethics education students and faculty wanted, so they requested additional resources. The university's vice president for health sciences at the time, Neal Vanselow, M.D., responded by appointing a university-wide task force to consider the request. The task force recommended centralizing and using available



university ethics resources and created a mission statement that described a center that would address "newly emerging biomedical ethics

to page 14

U.S. POSTAGE PAID

Mpls. MN

Permit No. 2655

BIOETHICS

### Are we there yet? from cover

fits, savings, and costs," *Health Affairs* 2005, 24:1103–1117), should view this unsolicited advice with the same skepticism with which they viewed the propaganda about managed care that engulfed the nation in the 1980s and early 1990s. Like the claims made for managed care, the claims being made for EMRs are vastly exaggerated. As was the case with managed care, EMRs will fail to make a dent in the health care crisis.

A chorus of voices Calls for EMRs have been audible for two decades, but they have become deafening in the last two years. In January 2004, President George W. Bush endorsed EMRs in his State of the Union address, and Democratic senators Hillary Clinton and Ted Kennedy announced legislation that would subsidize the purchase of EMR software by doctors and improve the capability of computers to share patient records. In April 2004, Bush called not only for universal adoption of EMRs but also for "interoper-

ability" among the computers holding EMRs, and then-DHHS Secretary

Tommy Thompson claimed EMRs would cut total health spending by 10 percent. In October 2004, presidential candidate John Kerry announced in the pages of the *Journal of the American Medical Association* that he supported widespread adoption of EMRs.

And those are just some of the more prominent political.



bsleebens@northco.com 5353 Wayzata Blvd., Suite 650, Mpis, MN 55436 www.northco.com



exagger the cas aged can fail to n the heal Luddites America ha technology nesses mor

voices. Think tanks like the **RAND** Corporation and Newt Gingrich's Center for Health Care Transformation, government agencies such as the Institute of Medicine and the Centers for Medicare and Medicaid Services, foundations such as the Markle and Robert Wood Johnson foundations, labor groups such as the AFL CIO, and business groups such as the Leapfrog Group and the Chamber of Commerce have also joined the choir. Last, but not least, corporations that stand to make lots of money off the EMR craze, including Siemens, Intel, Microsoft, IDX, GE, McKesson, Cisco Systems, and IBM, participate in and finance the choir (Chin op. cit., www.connectingforhealth.org Isteeringgroup).

#### Hype déjà vu

The similarities between the claims made by managed care advocates in the 1980s and 1990s and the claims made today by EMR advocates are striking. As was the case with managed care, EMR proponents level exaggerated and unsubstantiated accusations against doctors, they make grandiose and unsubstantiated claims for EMRs, and they say virtually nothing about the costs their proposal will inflict on doctors and the damage to privacy their proposal will inflict on patients.

The most common criticism EMR advocates level against doctors is that doctors are

Like the claims made for managed care, the claims being made for EMRs are vast' exaggerated. As we the case with managed care, EMRs will fail to make a dent in the health care crisis.

Luddites. "Most industries in America have used information technology to make their businesses more cost-effective, more efficient, and more productive, and the truth of the matter is, health care hadin't," asserted President Bush in a speech in Cleveland in January 2004.

In an interview with American Medical News published later that year. Newt Gingrich claimed that doctors who continued to rely on pa files were killing their patien "No serious person can debate that having disaggregated paper records [whatever that means] isn't an invitation to killing people," asserted Gingrich. As if that were not glib enough. Gingrich went on to declare, "In the long run it will be malpractice to have paper records" and "Paper kills." (Tyler Chin, "Gingrich's grand vision," American Medical News, Aug. 9, 2004, 13.)

These claims are not based on anything resembling solid evidence. It is debatable whether IT has made "most industries" more efficient, it is not true that doctors refuse to use computers, and the claim that "paper kills" is absurd. It is clear that some industries, such as telecomo nications and banking, impr the efficiency with which they performed simple, routine tasks by automating the performance of those tasks. As a scientist at, the University of Colorado wrote in a paper published in Scientific American in 1997, "What IT payback we've seen has been confined largely to low value, transaction-processing functions: moving trades, clearing

checks, processing orders."

Like other actors in the economy, many clinics and virtually all hospitals employ computers where the business case for doing so is clear. Clinics and hospitals use computers

"v billing, submitting claims, lering supplies, and schedulig appointments. When people like Bush and Gingrich complain that doctors "resist" using computers, what they really mean is, "doctors refuse to convert to EMRs and use them on a daily basis in making professional judgments about what care to give their patients."

Unlike the sweeping statement that doctors are Luddites, that statement is true. Only 10 percent to 20 percent of all U.S. doctors have computerized their inedical records. (Chin. op. cit., Hillestad et al., op. cit.) And for good reason: There is no reliable evidence supporting the claims that the large investment required to switch to EMRs will improve quality of care and

"hat all or even most improve ents in quality must inevitably ad to reductions in cost.

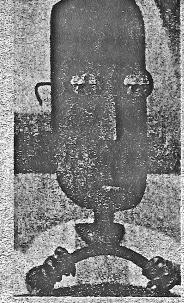
## IT and quality improvement

The scientific literature on the effect of IT on quality of care is woefully thin, and what little there is does not justify the confident claims being made for IT. The Medicare Payment Advisory Commission (MedPAC), an agency established by Congress to advise Congress on health policy, reviewed this literature in its June 2004 report to Congress. The agency took note of "the widespread belief that adoption of IT in health care will improve quality," but concluded that much remains unknown about the role of IT in the health care setting" and that the few studies

at have shown "that some

chnologies lead to better care [came] primarily from select institutions that developed their own systems and may not represent the average facility."

MedPAC summarized a 2001 study by the Federal Agency for Healthcare Research and Quality that "determined that 14 safety practices had greater



strength of evidence regarding their impact and effectiveness than any practice which relied on IT." For example, "such lowcost items as appropriate provision of nutrition ... and use of maximum sterile barriers while placing central intravenous catheters to prevent infections" were more evidence-based than any intervention based on IT.

MedPAC found several studies demonstrating that computerized provider order entry (CPOE) for medications and clinical decision support systems (CDSS), software that helps doctors make diagnoses and treatment decisions, have a positive effect on quality. But MedPAC warned that "nineout of 11 formal analyses [of. CPOE] took place at one of two advanced institutions," and further noted that 22 of 65 studies on CDSS found no positive effect on compliance with standards of care, and seven of 14 found no positive impact on patient health. The only type of IT for which MedPAC found unequivocal support in the literature was bar coding for medications (MedPAC cited a total of four favorable papers).

Moreover, studies published since MedPAC issued its report have questioned the value of both CPOE and CDSS. Papers published in the March 9, 2005, edition of *JAMA* found that a computer system installed at the hospital affiliated with the University of Pennsylvania introThe scientific literature on the effect of IT on quality of care is woefully thin, and what little there is does not justify the confident claims being made for IT.

duced 22 new types of medication errors and that CDSS improved patient outcomes in only seven of 52 trials. A paper in the July 27, 2005, edition of *JAMA* found that CDSS slightly improved the rate at which diabetic eye examinations and pneumococcal vaccinations were delivered but had no effect on the rate at which hemoglobin A1c testing, colon cancer screening, mammography, and flu vaccinations were delivered.

## IT and cost reductions

On the question of whether IT leads to lower costs, the literature is even sparser and more pessimistic. According to MedPAC, "With the exception of pharmacy settings, there is little consistent evidence that IT systems save time for providers. In some instances, the literature suggests the reverse..." The literature on IT in hospital settings, reported MedPAC, "provides scant evidence of return on investment calculations for CPOE and EHR [electronic health records]...."

The March 9, 2005, paper in JAMA reported that more than half the trials that examined the impact of CDSS on "clinician workflow" found "CDSSs requiring more time and effort from the user compared with papers based methods." A health care system vice president in charge of implementing a systemvide EMR for a local hospital recent ly remarked that for clinicians. "the interaction with the system, at least initially and potentially

ARE WE THERE YET? to page 38

## LAKEVILLE MEDICAL OFFICE AVAILABLE FOR LEASE



- New, Two-Story, 45,000 sf Building
- Ample Parking (6 spaces/1;000 sf)

ENSTAR-14

- Just 3 freeway miles from the Fairview Ridges Hospital Campus
- Great Visibility and Easy Freeway Access from I-35W and Highway 46

OCTOBER 2005 MINNESOTA PHYSICIAN

CONTACT BETH RICE

952-924-7191

## Are we there yet? from page 11

forever [emphasis mine], takes more time" (Medfax, Aug. 1, 2005).

A paper published last month in *Health Affairs*, which concludes that adoption of



EMRs nationwide will save \$81 billion annually, may be disregarded as little more than a press release from the computer industry. The paper was financed by Hewlett-Packard, three other IT companies, and Johnson and Johnson, It was written by people who

make a living promoting IT and who think medical care can be compared to selling phone services. Plus, it is based on the opinions of unidentified experts, not on scientific research (Hillestad et al., op. cit.).

Like managed care advocates before them, EMRadvocates have been silent or, at best, vague about the cost of their proposal. Last August, the nation finally got an estimate of what it will cost to establish the "national health information network"-an EMR for every patient, and "interoperability" among all computers holding EMRsproposed by President Bush. According to a paper published in the August 2, 2005, edition of Annals of Internal Medicine, the price tag will be \$156 billion incapital costs for the next five years, plus \$48 billion in annual operating costs.

And this estimate does not take into account a major assumption underlying the EMR movement's claim that EMRs will improve quality and reduce cost: that the universal adoption of EMRs will facilitate the production of report cards on doctors, which will in turn

cause doctors to improve quality. This claim, the most fantastic of all the claims made by EMR. advocates, is worse than unsubstantiated. As two experts stated in the March 9, 2005, edition of JAMA, "some evidence suggests that public reporting [on quality] reduces overall health care quality." The publication of accurate report cards on a broad scale will be astronomically expensive. Because most report cards require that researchers have access to medical records in order to risk-adjust scores, widespread production of report cards will also destroy what little is left of patient privacy.

#### Where's the evidence?

The preceding remarks should not be construed to be an argument against EMRs. It is an argument against hyping EMRs and in favor of basing state and federal policy about EMRs on evidence, not faith. It is time for EMR evangelicals to practice what they preach. They insist

that doctors practice evidencebased medicine, but they refuse to practice evidence-based health policy. Evidence does not support the argument that all doctors and hospitals should invest in EMRs. The best that can be said for IT in health care right now is that using computers for administrative tasks and bar coding of medications appears to enhance efficiency. Evidence for policies manda or subsidizing adoption of a other applications of IT doe not yet exist. C

Kip Sullivan, J.D., sits on the steering committee of the Minnesota Universal Health Care Coalition. Minnesota Hospital Association

2550 University Ave. W., Suite 350-S St. Paul, MN 55114-1900 phone (651) 641-1121 fax (651) 659-1477 toll free (800) 462-5393 www.mnhospitals.org

January 17, 2006

Dear Senators and Representatives:

In light of the "Health Care Solutions Series" and the January 17, 2006 joint meeting of the Senate Health and Family Security Committee and the Senate Government Budget Division, the Minnesota Hospital Association (MHA) would like to take this opportunity to share with you information regarding our performance reporting efforts and our "Minnesota Hospital Quality Partnership."

As part of the Omnibus Health & Human Services Bill (HF 139) passed during the 2005 Special Session, the Minnesota Hospital Association and Stratis Health (Minnesota's quality improvement organization under contract with Centers for Medicare and Medicaid Services) were called upon to advise the Commissioner on the development of performance measures to be used for inpatient hospital reporting by October 1, 2007. "The measures used for the performance reporting system for inpatient hospitals shall include measures of care for acute myocardial infarction, heart failure, and pneumonia, and measures of care and prevention of surgical infections."

MHA and Stratis Health had contemplated a public report of hospital performance prior to the legislation, and a partnership was formed in January of 2005. Efforts are well underway to produce a web-site which will contain hospital specific performance results as early as Spring of 2006.

CMS is currently collecting and reporting data from hospitals on a voluntary basis for the same categories of care as referenced in the legislation. These data will be the foundation of the Partnership's web-site on hospital reporting in Minnesota as well. By using data that is already being collected, we are able to consolidate and streamline reporting efforts. However, the Minnesota site will include additional information not available through CMS's website.

Along with the Adverse Health Event Reporting law, this performance reporting initiative demonstrates the priority that Minnesota hospitals place on transparency as it relates to quality and patient safety. If you have any questions, please feel free to contact me at the Minnesota Hospital Association.

š,

Sincerely,

Mark Sonneborn Vice President, Information Services

#### Excerpted from House File #139 from Special Session

[EFFECTIVE DATE.] This section is effective January 1, 2006. 374.2 [256B.072] [PERFORMANCE REPORTING AND QUALITY 374.3 Sec. 43. 374.4 IMPROVEMENT SYSTEM.] (a) The commissioner of human services shall establish a 374.5 performance reporting system for health care providers who 374.6 provide health care services to public program recipients 374.7 covered under chapters 256B, 256D, and 256L, reporting 374.8 separately for managed care and fee-for-service recipients. 374.9 (b) The measures used for the performance reporting system 374.10 for medical groups shall include measures of care for asthma, 374.11 diabetes, hypertension, and coronary artery disease and measures 374.12 374.13 of preventive care services. The measures used for the performance reporting system for inpatient hospitals shall 374.14 include measures of care for acute myocardial infarction, heart 374.15 374.16 failure, and pneumonia, and measures of care and prevention of surgical infections. In the case of a medical group, the 374.17 374.18 measures used shall be consistent with measures published by 374.19 nonprofit Minnesota or national organizations that produce and 374.20 disseminate health care quality measures or evidence-based 374.21 health care guidelines. In the case of inpatient hospital 374.22 measures, the commissioner shall appoint the Minnesota Hospital 374.23 Association and Stratis Health to advise on the development of 374.24 the performance measures to be used for hospital reporting. To 374.25 enable a consistent measurement process across the community, the commissioner may use measures of care provided for patients 374.26 in addition to those identified in paragraph (a). The 374.27 commissioner shall ensure collaboration with other health care 374.28 reporting organizations so that the measures described in this 374.29 374.30 section are consistent with those reported by those 374.31 organizations and used by other purchasers in Minnesota. 374.32 (c) The commissioner may require providers to submit 374.33 information in a required format to a health care reporting 374.34 organization or to cooperate with the information collection 374.35 procedures of that organization. The commissioner may 374.36 collaborate with a reporting organization to collect information 375.1 reported and to prevent duplication of reporting. 375.2 (d) By October 1, 2007, and annually thereafter, the 375.3 commissioner shall report through a public Web site the results 375.4 by medical groups and hospitals, where possible, of the measures 375.5 under this section, and shall compare the results by medical 375.6 groups and hospitals for patients enrolled in public programs to 375.7 patients enrolled in private health plans. To achieve this 375.8 reporting, the commissioner may collaborate with a health care 375.9 reporting organization that operates a Web site suitable for 375.10 this purpose.

## Draft Plan for Public Report on Quality of Minnesota Hospitals

## I. Initial Measures:

Heart Attack – 9 measures:

- 1) aspirin at arrival
- 2) aspirin at discharge
- 3) beta blocker at arrival
- 4) beta blocker at discharge
- 5) ACE Inhibitor for LVSD
- 6) percutaneous coronary intervention within 120 minutes of arrival
- 7) thrombolytic agent received within 30 minutes of arrival
- 8) smoking cessation counseling
- 9) percent of patients receiving all of the previous 8 measures when eligible.

## Heart Failure – 5 measures:

- 1) assessment of LV function
- 2) ACE for LVSD
- 3) smoking cessation counseling
- 4) discharge instructions
- 5) percent of patients receiving all of the previous 4 measures when eligible.

## **Pneumonia** – 8 measures:

- 1) antibiotic timing
- 2) oxygenation assessment
- 3) pneumonia vaccination
- 4) smoking cessation counseling
- 5) blood culture before antibiotic
- 6) initial selection of antibiotic
- 7) influenza vaccination
- 8) percent of patients receiving all of the previous 7 measures when eligible.

## Surgical Infection Prevention – 4 measures:

- 1) timing of prophylaxis antibiotic
- 2) selection of antibiotic
- 3) duration of prophylaxis
- 4) percent of patients receiving all of the previous 3 measures when eligible.

## **II.** Additional Measures:

In addition to this, the Minnesota Health Quality Partnership will identify other measures that may be added to future reports. These include:

- Measures of rural relevance that Stratis Health has helped to develop in conjunction with the University of Minnesota and hospitals in Minnesota, Nevada, and Utah, and that are in the CMS approval process for potential use in the 8<sup>th</sup> Scope of Work.
- A process measure related to adherence to the ventilator bundle to prevent ventilator associated pneumonia.
- a subset of the AHRQ Quality Indicators. The plan is to share the results of the AHRQ QIs with hospitals prior to proceeding with public reporting so that coding issues may be addressed.
- Other measures approved by the National Quality Forum.

## **III.** Other considerations

Increasing the user-friendliness for consumers is an important objective of this project.