

Advancing, Promoting and Facilitating Health

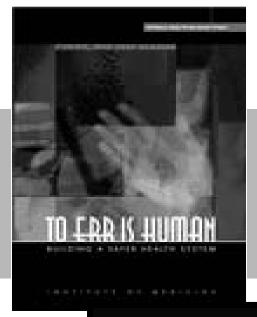
# National Health Information Infrastructure Consumer Health Considerations and Recommendations for Policy

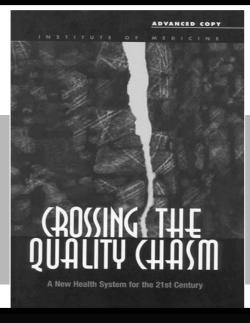
Reed V. Tuckson, M.D.

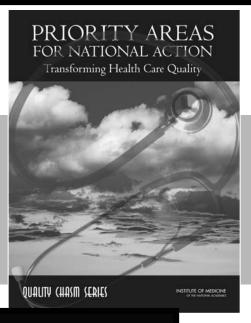
Senior Vice President, Consumer Health and Medical Care Advancement

"The American health care delivery system is in need of fundamental change. The current care systems cannot do the job. Trying harder will not work. Changing systems of care will."

"The Institute of Medicine's Committee on Quality Health Care in America"

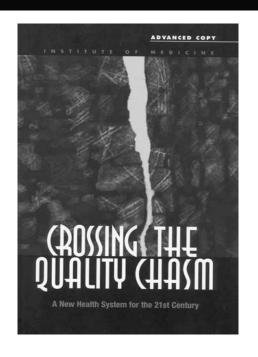






Health information for consumers will be a key component of that change!

### According to the IOM, Consumers are Key to the Aims and Rules Necessary for Health System Reform



SIX AIMS FOR IMPROVEMENT

• Safe

• Effective

• Patient-Centered

• Timely

• Efficient

• Equitable

TEN RULES TO GUIDE
THE REDESIGN OF CARE

Continuous Healing
Relationships
Evidence Based Decisions
Customized Care
Patient as Source of Control
Shared Knowledge
Transparency
Safety as a System Property
Cooperation Among Clinicians
Needs are Anticipated
Waste is Decreased

The key to all this is...

EFFECTIVE ORGANIZATIONAL SUPPORT

Invest in Information Technology

- Coordinate Care
- Redesign Care Processes
- Manage Knowledge and Skills
- Develop Effective Multidisciplinary Teams
- Measure and Improve Performance and Outcomes

### Health Consumers are a Diverse Population, Each with Different Information Needs

### Multi-ethnic communities











#### Older & chronically ill people



Women aged 24 to 50



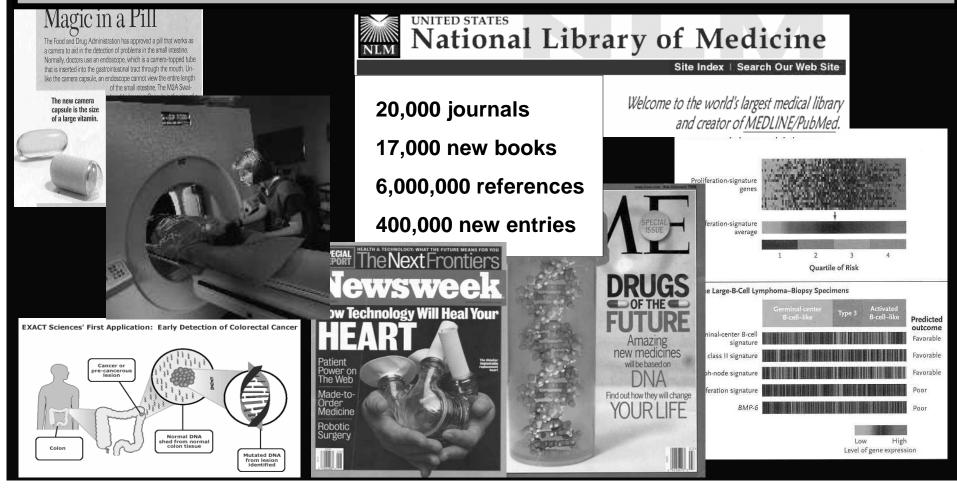
The "worried well"



"They are segmented by their desire and capacity to seek information, their health status, and the course of their illness."

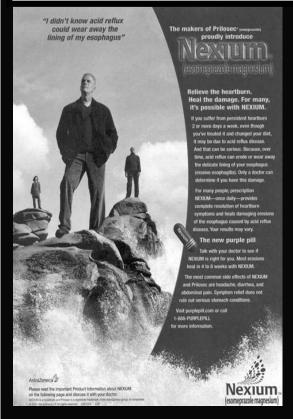
FACCT

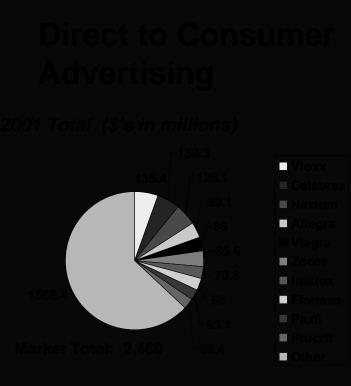
Ready access to <u>reliable</u> information: there are so many more treatment decisions to be made by patients and physicians because of the explosion in the development of new scientific knowledge, pharmaceuticals and technology!

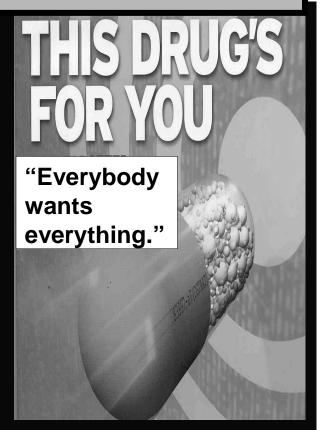


Ready access to <u>trustworthy</u> information: consumers must make more health care decisions because of DTC advertising and media coverage and

they have increasing expectations for access to medical care interventions and for the outcomes of care.







#### New Challenge: Internet Direct to Consumer Advertising of Medical Devices and Genetic Tests

Increasingly the Internet is used to advertise complex and expensive health care services and products directly to consumers.

#### "Make an Appointment for Your Ultra-fast **Electron Beam Tomography Today!"**

Heart and Lung Screening

EBT is a powerful tool against heart disease, but lung cancer is a growing global epidemic. No other cancer is as deadly and widespread. Every year 3.5 million people die worldwide from tobacco-related diseases - a third of them attributable to lung cancer. By 2030, that figure will climb to 10 million people. Every year, lung cancer kills more people than breast, prostate, and colorectal cancers combined. Currently, 85 percent of lung cancer victims are diagnosed in late-stage disease. Price Information



Recently, the FDA approved the use of ultra-fast Electron Beam Tomography to accurately detect lung cancer in its earliest stages. Simply put, it is the best lung-screening tool in the world and makes conventional chest x-rays a thing of the past. Following a non-invasive 10-minute scanon the EBT while the patient is fully clothed, a physician or other medical professional at Vital Imaging shows the test results on a computer screen to the patient. The heart screening is also included in this test. It's like taking a virtual tour through the heart and lungs. EBT is so sensitive that even the tiniest airways can be seen with startling clarity. Afterward, a radiologist carefully reviews the test results and provides the patient and their doctor with a comprehensive written medical report, more on

lung screening

SOURCE: Alliance for Lung Cancer Advocacy, Support, and Education (ALCASE)

Make an appointment for a scan today!



"Would you like to know if you have the genetic predisposition to abuse drugs and alcohol? Does your child have the genetic trait that leads to disruptive personalities?"



Neutraceuticals For The Millenium

DO YOU NEED HELP WITH: ALCOHOLISM/HEROIN COCAINE/STIMULANTS WEIGHT MANAGEMENT

#### SMOKING/TOBACCO: Introducing a ground breaking addiction treatment tool.

Are γου compulsive? Have γου ever wondered whγ γου crave certain things and/or act in an irrational manner? Would you like to know if you have the genetic predisposition to abuse drugs ADHD / ADD; and alcohol? Are you concerned about your children's future? Does your child have the genetic trait that leads to disruptive and addictive personalities? DNA testing can help you understand and manage a child's behavior before it gets out of control.



Imagene will test a panel of dopaminergic related Reward Deficiency Syndrome(RDS) genes. This will allow you to know if there is a genetic predisposition towards any of the associated addictions. The Reward product line is then available to treat the genetic predisposition towards

Imagene is an at home genetic testing kit that is simple to use. Here are the actual instructions.

#### There are Serious Concerns with the Quality of Information Available for Consumer Decision-Making

### "Misinformation and biased information leads to overuse and inappropriate use of drugs."



A study from the Canadian Centre for Policy Alternatives



### Drugs in the News

How well do Canadian newspapers report the good, the bad and the ugly of new prescription drugs?

- Stories often overemphasize the benefits of drugs
- Many articles don't adequately address risks
- Over 2/3 of stories did not mention side effects
- Contraindication were mentioned in 4% of cases; financial ties of these cases to manufacturers were not disclosed



2 For out who year the also any year hearth easted also provide name. A complex youth learn who is responsible for the oils and its information. Pay store attended to the underline and condention of the publisher.

Wip wate the sharehold is the pelics a plantary cure
public or stollar radio procupied? Bind set that moderate,
a Taylors and polymorate experiency that are they queficitive.

for writing on the adaptitud hand?

It. What is the source of the information? Many health often pool or otherwise collected from other work also. If the provision is always and the provision is a strong or otherwise collected from otherwise collected from the collected from the

should be should be be a substitute of the state of the s

labeled on a regular basis. So below to both the property \$44

6. Sook to bie that there are constituted as to the information are opinions that are effected, but the wholesance and photocour that pro-

6. De sinylar protes that an extremine an guerroust opcomed because many are resolute and not describe a commencial reasons. The obstraction and their states about the protection is a figure as to consider the industrial fraction with a large for the protecting fig.

b. Any condition means the saving to precover inhumation should rely to expoly what they will and will all all with it. By sending that you wend the salest private policy elaboration and the saw you have why they are asset agree to decidize personal.

10. Open the elementary purgather from Interest sources with jour health problemoust. Make some you make their injurit and reconveniabless along your little of read south, expensive when

We have that the more you know about you made, the residue you'd be himp this interesting one blant beth you have you got match. The man is displicationable as available, the Well and any other breath own quietiens, or him is over-absorbed the orbital and the breath own quietiens, or him is over-absorbed the orbital and the property of the property of the second absorbed the orbital and the property of the property of the second absorbed the orbital and the property of the property of the second and the property of the property o

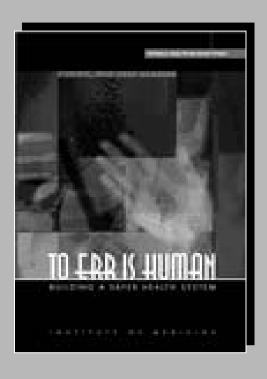
UnitedHealth



If you've been diagnosed with diabetes, your life may never be the same again. Diabetes is a long-term condition that doesn't go away. And it can lead to serious health problems. But making changes to your lifestyle and taking medication can help you live a long and healthy life.

We've brought together the best research about diabetes and weighed the evidence about how to treat it. You can use our information to talk with your doctor and decide which treatments are best for you.

Ready access to <u>actionable</u> information that can help prevent errors: consumers are increasingly attentive to the safety and quality of health care delivery.



### Victim of botched transplant declared dead

Hospital: 'We very much regret these tragic circumstances'

Sunday, February 23, 2003 Posted: 1:36 PM EST (1836 GMT)

DURHAM, North Carolina (CNN) -- Doctors at Duke University Hospital declared Jesica Santillan dead at 1:25 p.m. Saturday and removed her from a respirator soon after. The 17 year-old girl had two heart and lung transplants this month, the first of which used organs with the wrong blood type.

"As of approximately 5 p.m., she is no longer on a respirator," a hospital



Family spokesman Mack Mahoney visits Jesica Santillan, 17, in the hospital after her second transplant operation.



#### CPOE



Hospital volume for special procedures



ICU staffing by trained Intensivists



for Patient Safety
Rewarding Higher Standards

Home

About Us

Patient Safety

**Purchasers** 

Hospitals

NEW!

<u>Hospital</u>

Survey Survey

Results

**CPOE** 

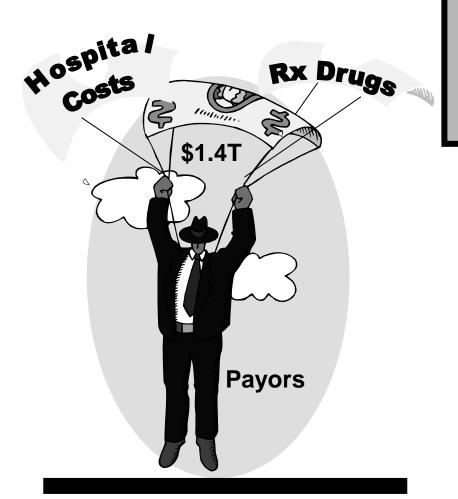
Reports

**Fact Sheets** 

Links

### HOSPITALINFORMATION

The Leapfrog Group is pleased to announce its Web survey, which marks the launch of a national effort to gather information from hospitals about their status with regard to the Group's three safety practices. Under Leapfrog, employers have agreed to base their purchase of health care on principles encouraging more stringent patient safety practices. Leapfrog purchasers will share our Web survey results with enrollees and the general public.



The \$ bottom line

Ready access to <u>decisionable</u> information: consumers will be increasingly expected to make decisions that put their financial "skin in the game" as employers struggle with escalating health care costs.

### Health insurance costs fire up unions

By Julie Appleby, USA TODAY

Rapidly rising health care costs are causing strife at bargaining tables nationwide as employers seek to shift some of the burden to workers while unions battle to save benefits.



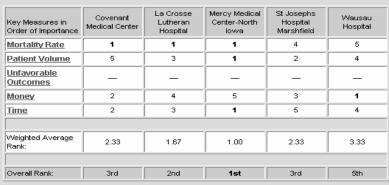
Hundreds of striking janitors and their supporters march through downtown Boston Sept. 30, 2002.

By Chitose Suzuki, AP

## Therefore: consumers should have access to information that reliably compares the cost of care and the quality of hospitals and physicians.

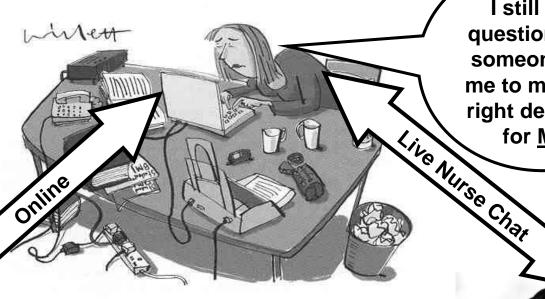


The chart below summarizes the ranking of this group of hospitals for each of the measures described above. Lower numbers are better, and the best rank in each category is highlighted in bold. In our final calculations, more weight was given to the measures you considered most important and less weight was given to those you considered less important. This ranking would change if you had ranked the comparison measures differently.





In addition: consumers should have an information infrastructure that supports them in making decisions based on reliable and trustworthy data.



I still have questions, can someone help me to make the right decisions for ME?





Ready access to <u>urgent</u> information: consumers and public health officials require "real time" access to information about biological and other related threats.







Therefore: consumer derived data should be available and used to support responsible public health analysis and information alerts.

#### ■ HEALTH PLANS SEARCH FOR BIOTERROR SYMPTOMS

HOMELAND SECURITY

By Marilyn Werber Serafini

#### NATIONAL JOURNAL 4/19/03

...in essence, the steams of data coming into health insurance plans – phone calls to nurse help lines and doctors' diagnoses - are sifted by computer programs to look for disease and symptom patterns sorted by zip code."

24-hour 'nurse line' call in anonymized data

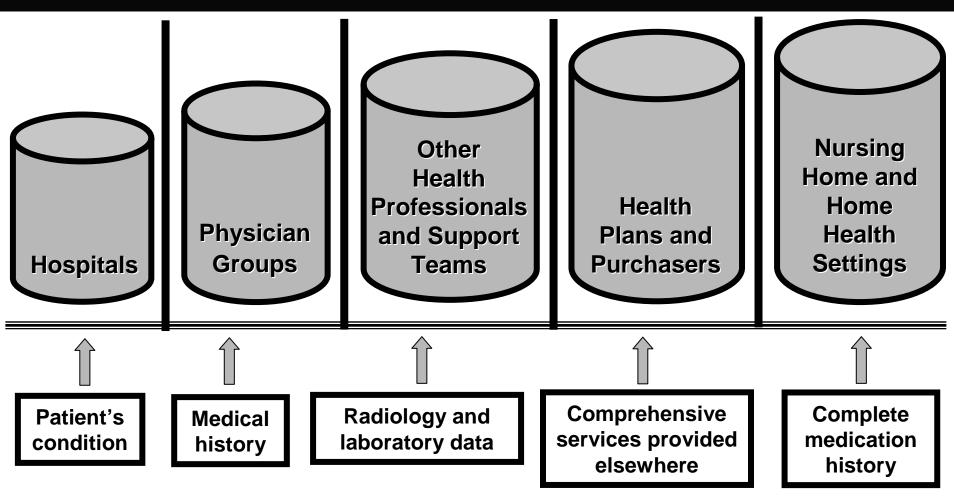
Organized by symptoms and demographics

Applied against disease surveillance analytics

Disseminated to public health agencies

Timely case investigation

### If Consumers are to be Well Served by Their Health Care Team: Information Must Flow Across Health Care Settings

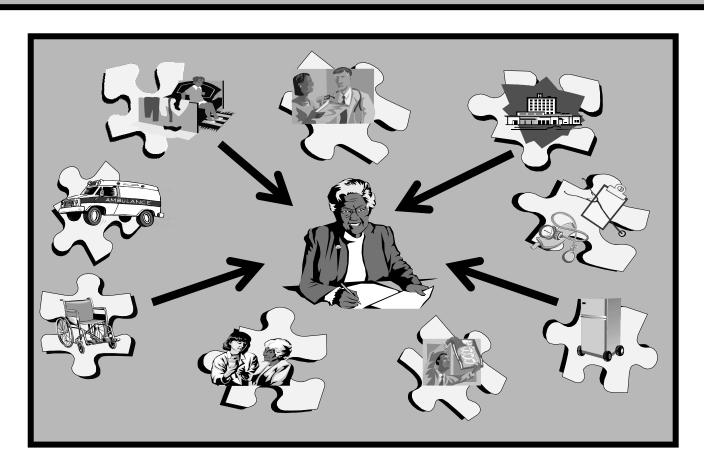


"The Health Care System is Highly Fragmented and Lacks Even Rudimentary Clinical Information Capabilities."

Institute of Medicine

### If Consumers are to be Well Served by Their Health Care Team: Information Must Flow Across Health Care Settings

This is especially important for older people and those with chronic diseases who require coordination of comprehensive medical and supportive services!





Why is it that this works for money and not for health care?!

# If Consumers are to Participate Effectively with Their Health Care Team: They Must Have Access to Their Own Health Information

#### QuickStart

<u>Click here</u> to quickly add to your record.

#### My Imported Information

Go to my imported information archives

#### View My Records

#### Visits (8)

Prepare summaries for my visits with care providers.

Conditions (12)

Medications (4)

Alleraies (2)

Surgeries (3)

Immunizations (7)

Tests (54)

Coverage



#### Automatic alerts

This tool automatically scans for potentially harmful in medications, herbs, vitamins, and allergies entered in y

#### Common Questions

How can this tool benefit me?

How is my information kept private?

How can I print or fax my records?

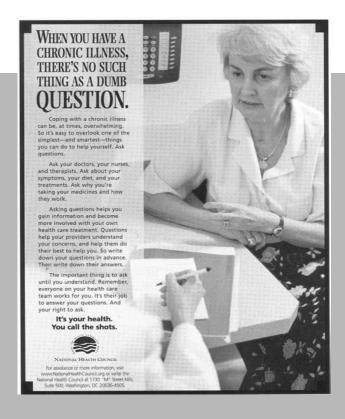
Save money t

Did you know 30% of your purchasing your order instead pharmacy? Electronic health records like this one from FACCT collect, update and integrate the conditions, tests, medications and interventions that form a person's health history.

Home	Messag	ges Comi	nunity	Diary	Graphs	Reports	Education	Profile		
Health Record										
Visits	Conditions	Medications	Allergies	Surgeries	Immunizat	tions   Tests	Coverage	Basics		

add medication check interactions	Health Record summary how to						
Current Medications	<u>Date</u> ▼	Frequency	Sourœ				
Click on an item to edit, delete or view related information.							
Glyburide XL 5MGTablet SA	05/30/2003	every morning	Rite-Aid				
Zyrtec 10MG Tablet	05/28/2002	as needed (PRN)	Sav-on				
Past Medications	Date▼	Frequency	Source				
Imitrex 20MG Nasal Spray	05/30/2003		Walgreens				
Rolaids 550mg Tablet, Chewable	11/05/2002		Rite-Aid				

# If Consumers are to Participate Effectively with Their Health Care Team: They Must be Supported in Putting Information into Action







**National Health Council** 

### The Interest of Consumers are Essential to the Design of a Robust Health Information Infrastructure

"The American health care delivery system is in need of fundamental change. The current care systems cannot do the job. Trying harder will not work. Changing systems of care will."

"The Institute of Medicine's Committee on Quality Health Care in America"

It is time to knock down the barriers that frustrate the flow and translation of information and data that are necessary for better quality and safer medical care decisions and outcomes.