Data for Consumers & Patients



Q: "What data & measures will consumers need to be successful patients & purchasers of care?"

A: Triple aim compass with feed forward & feedback data

Eugene C. Nelson, DSc, MPH: Professor, The Dartmouth Institute, Director, Population Health, Dartmouth-Hitchcock. NCVHS Presentation, 10/18/2010

What do we really want?

- Q: How is a kilowatt-hour of electricity like a day in the hospital?
- A: Nobody wants either
- Hot showers & cold beer
- Better health, better care & lower costs



Amory Lovins: End use, least costs

Negawatts and Negabeds: Berwick, Lovins, Fisher Huffington Post, December 29,2008

Consumers need data to answer critical questions

- 1. Can I get the care I want and need exactly when I want and need it?
- 2. Am I getting the best value care for me given who I am and what health care can do?
- 3. How can I get the data I need as care is provided, to make good decisions and to review the success of the care that I have gotten?

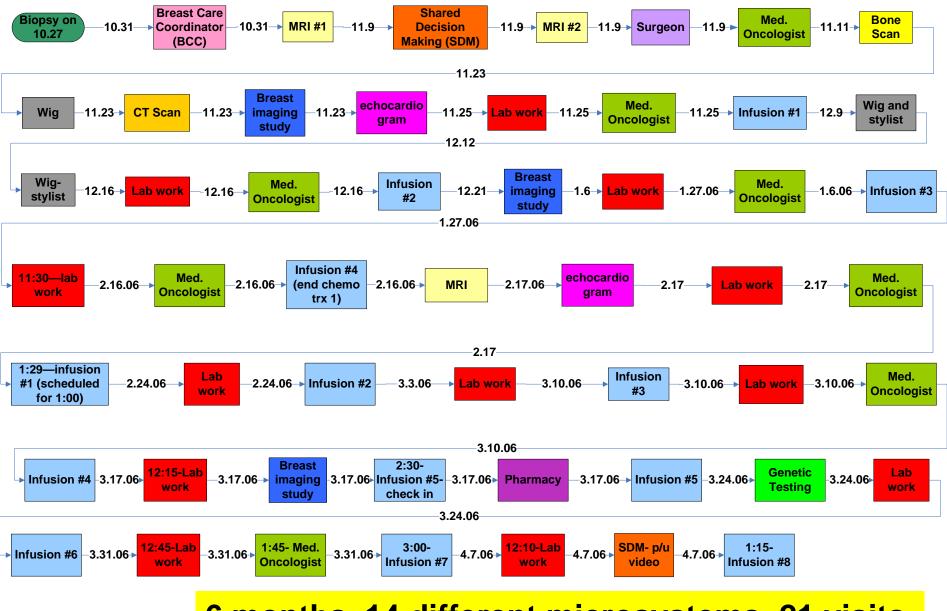
Can I get the care I want and need exactly when I want and need it?

> Meet Amy ... 38 years old, single, new to area, school teacher, found a lump ...

Meet Amy!



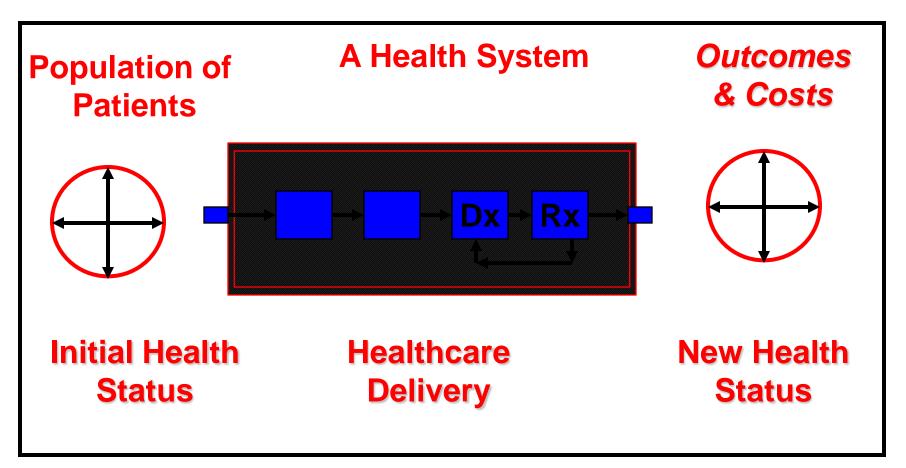




6 months, 14 different microsystems, 21 visits



Let's step back and look at Amy's care from a distance





Amy & people like her want data to answer key questions as care progresses over time

- What are my chances of surviving?
- What are the risks of different treatments?
- How will I feel physically & mentally?
- How fast will I be able to get back to work & back to my life?
- What can I do to help myself to get the best results?
- Will I be treated the way I would like to be?
- Can I afford the best treatments that I want and need?

Amy's **Early** Compass Points

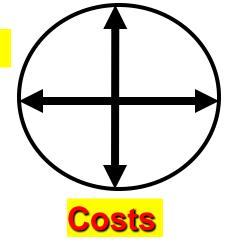
- Physical
- Mental
- Role
- Vitality
- Risk Status***

Value = O + E /\$

Function & Risk Status

Disease Status

- Mortality***
- Morbidity
- Complications



- Direct Medical
- Indirect Social

Experience vs. Need

- Health Activation***
- Health Care Delivery
- Perceived Health Benefit

Am I getting the best value care given who I am and what health care can do?

2

Meet Brian & Betty... New to the Dartmouth Spine Center

- Brian 45 years old with herniated disk & good insurance
- Betty 64 years old with spinal stenosis & no insurance

Dartmouth Spine Center

• Motto

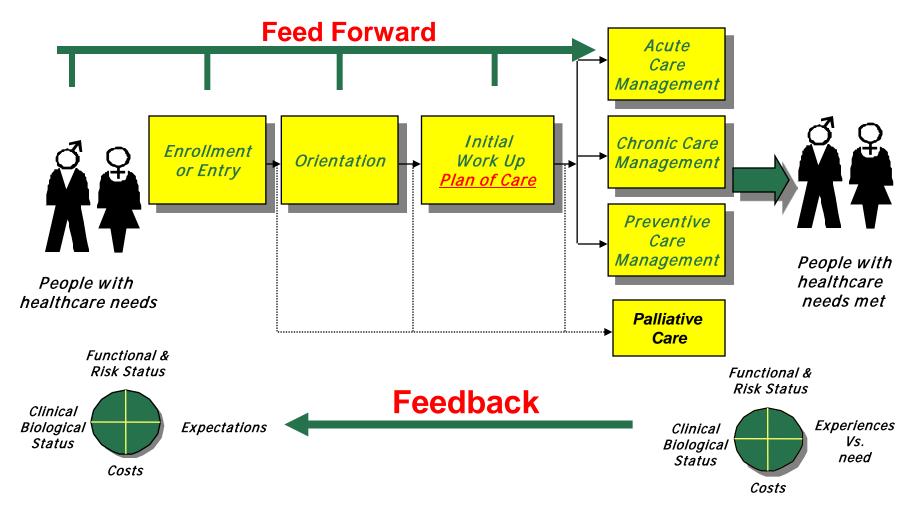
back to work back to play 1 person at a time

- Methods
 - one stop shopping, interdisciplinary, shared decision making, outcomes tracking, collaborative learning & research

Founder

- Jim Weinstein, DO, MS & President D-HC
- An innovative green fields program of care

Spine Center: feed forward data for developing/monitoring care plan, coordinating care, & feedback data for improving care & measuring & researching value of care



Brian & Betty & people like them want data to answer key questions as care progresses over time

- What are my chances of becoming pain free?
- What are the risks & benefits of different treatments?
- How will I feel physically & mentally?
- How fast will I be able to get back to work & back to my life?
- What can I do to help myself to get the best results?
- Will I be treated the way I would like to be?
- Can I afford the best treatments that I want and need?

Touch Pad or Web Technology



Patient provides self-report data when visiting provider or at home using web-enabled system

Patient Summary Report: Dartmouth Spine Center

"I can't be a good doctor without this data."

09/19/2006)

Surgery

Initial Visit: 01/18/2005

Worsening scores: MCS

Appointment: Spine Clinic; RHV; 09/19/2006 Survey Group: Spine Followup: completed on 09/19/2006: 19 mins. Reason for visit:

Personal Summary (m of 09/19/2006)

Demographics: Female; 80 yrs old; Married; Some college or technical school

Working Status:

Social: Lives alone

Work Disability (as at 09/19/2006)

Legal action: None - I am not considering any legal action

Health History (as of 09/19/2006)

Current conditions: Condition history: High blood pressure; Uterine concer; Other chronic pain

Previous Surgerless Uterine cancer; Not sure pain

Hospitalizations, Cancert 1

Family history: Asthma, Cancer, Penicilin allergy, Stroke; Uterine cancer, Breast cancer(One sister or brother)

Medications: Anti-hypertension, Cholesterol, Other presoription

Medication allergies: None known **Physical Events:**

Health Habits (as of 09/19/2006)

BMI: 28.3 (Overweight); 155 lbs Smoking: Never smoked

Alcohol AUDIT: 0: low risk

Review of Systems

GI:

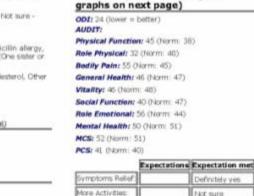
M/S: Neuro: Hemo/lymph:

Psych: Ender Skin/Hair:

Ura-gyn:



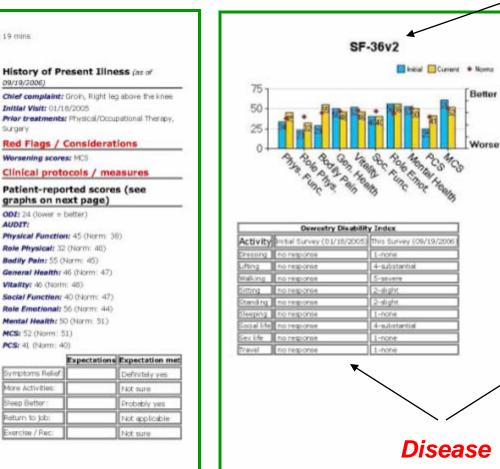
Experience



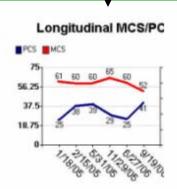
leep Better

eturn to job:

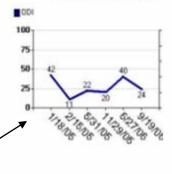
ercise / Rec:



Function



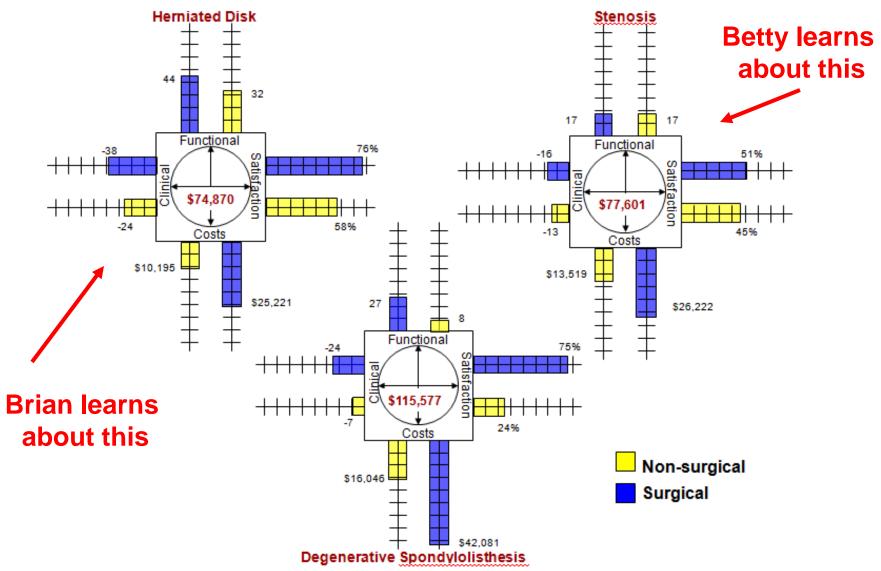
Longitudinal ODI



Disease

15 Used to develop/revise care plan & monitor impact of care for individual patients

MEASURING VALUE: SPORT* trial, patient-reported data combined with cost data to compare effectiveness & value of treatments



* NIH-sponsored <u>Spine Patient Outcomes Research Trial; publications in JAMA, NEJM, Spine, etc.</u>



What data & measures do consumers need as patients & as purchasers?

Need a "<u>compass</u>" to navigate the health care system

- People/patients on journey to regain or maintain health
- Health care needs <u>evolve</u> as health status changes
- Therefore, patients need data to answer key questions about <u>health, care & costs</u> as their condition changes

- Need data on health status (their own & likely outcomes given database on prior patients like them) to:
 - Match best care plan to health state & monitor impact of care on outcomes
 - Make informed decisions about best treatment options for "me given my preferences"
- Need feed forward & feedback data on care experiences & costs

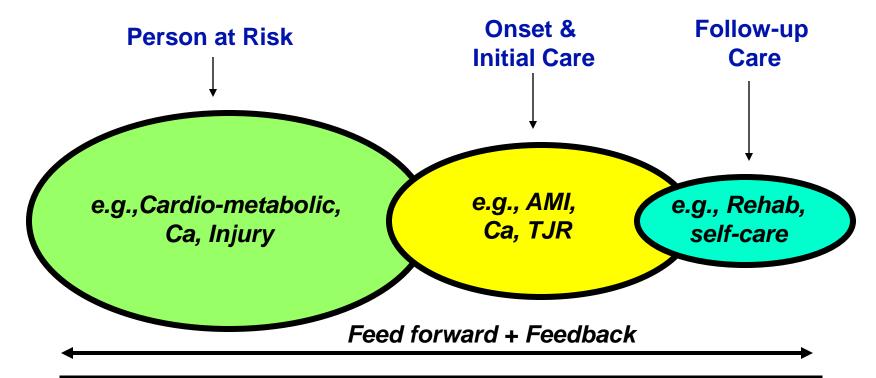
"My triple aim" compass will evolve over time as my health changes



- Compass points
 - Health Outcomes
 - Disease status
 - Functional status
 - Risk status
 - Care Experiences
 - Activation
 - Care (STEEEP)*
 - Perceived benefit
 - Costs of Care
 - Direct medical
 - Indirect social

* IOM Chasm Report quality: safe, timely, effective, efficient, equitable, patient-centered

NQF Patient-Focused Longitudinal Measures & Triple Aim Compass Points

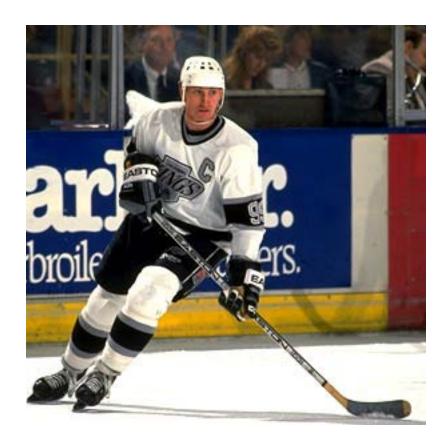


Risk	+++	+	+++
Function	+	+	+++
Disease		+++	+
Experiences	+	+++	+
Costs	+	+	+++



Gretzky: skating where the puck is going to be

- Adopt NQF longitudinal measures framework
- Populate with triple aim measures
- Feed forward data as care is given to patients
- Feedback data on outcomes of populations of "similar" patients to support decision making & patient-centered research



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