Adding value to health care

Cyril Chantler

Hong Kong June 2011

"Value in any field must be defined around the customer, not the supplier. Value must also be measured by outputs, not inputs. Hence it is patient health results that matter, not the volume of services delivered. But results are achieved at some cost.

Therefore, the proper objective is... patient health outcomes relative to the total cost."

Porter ME. (2008). What is Value in Health Care?
Harvard Business School. See also NEJM 363, 2477-2481, 2010

Rationing or a restricted service

What is provided

When it is provided

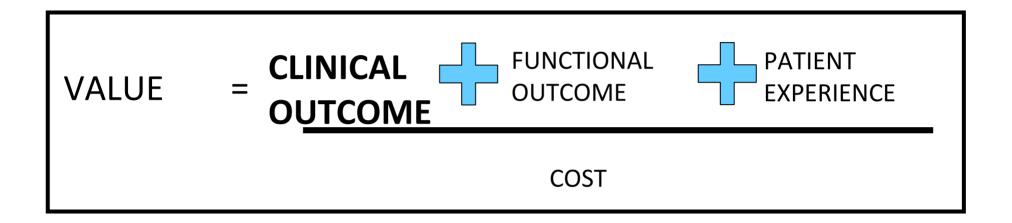
To whom it is provided

Why should clinicians be involved with management?

- Ethical responsibility to practise with efficacy, effectiveness, efficiency, equity and economy
- To maximise clinical freedom for the benefit of patients
- To provide LEADERSHIP

HOSPITALS

What is performance?



- Level of the individual condition
- Clinical quality includes outcomes and safety
- Functional outcome as measured by PROMs
- Patient experience includes access and satisfaction measures

Source: VHA; Michael Porter

dr fosterhealth.co.uk™

What are Hospital Standardised Mortality Ratios?

The Hospital Standardised Mortality Ratio (HSMR) is an indicator of healthcare quality that measures whether the death rate at a hospital is higher or lower than you would expect.

The HSMR compares the expected rate of death in a hospital with the actual rate of death. Dr Foster looks at those patients with diagnoses that most commonly result in death- for example, heart attacks, strokes or broken hips.

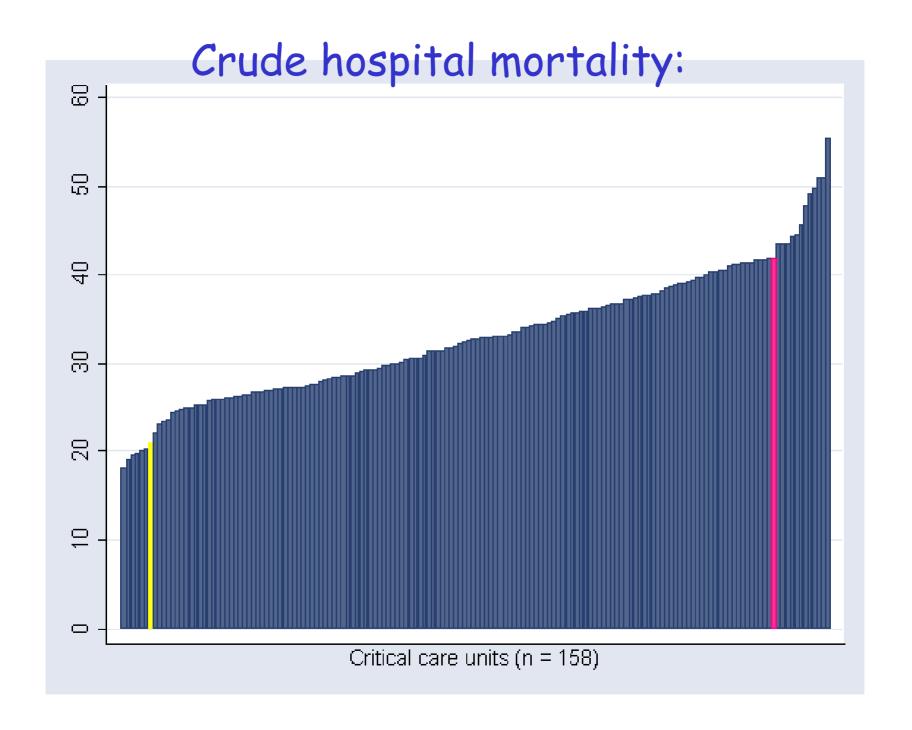
Like all statistics, HSMRs are not perfect. If a hospital has a high HSMR, it cannot be said for certain that this reflects failings in the care provided by the hospital.

However, it can be a warning sign that things are going wrong.

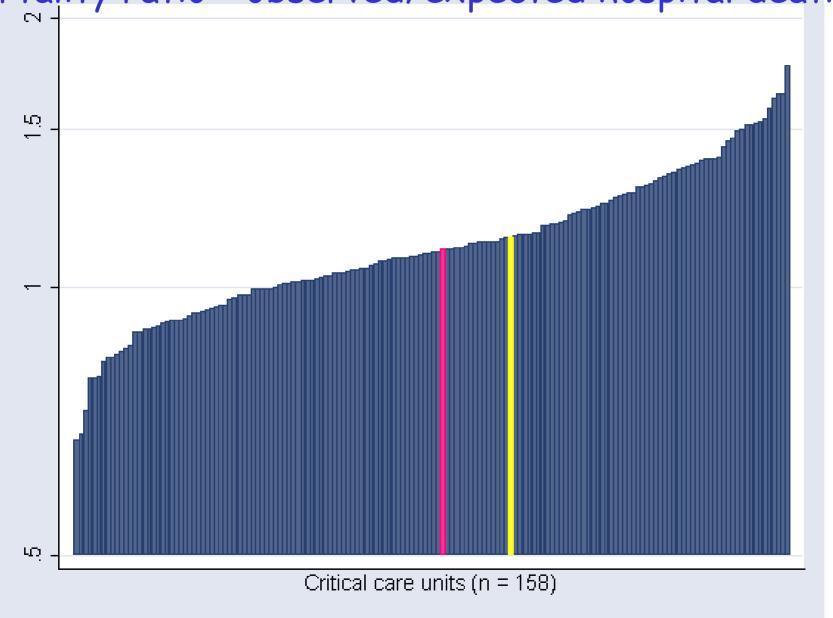
Hospital guides based on mortality data: Requirements for meaningful comparisons of effectiveness

Nick Black London School of Hygiene & Tropical Medicine

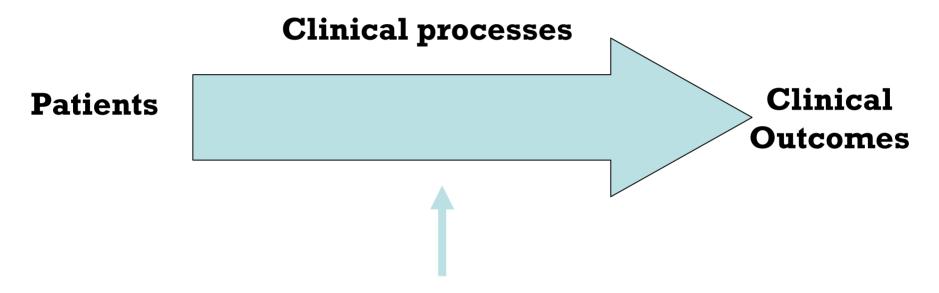
- Accurate (valid and reliable) and complete data on
 - inputs (patients)
 - outcomes
- Need to adjust for differences in case mix
- See also BMJ 338 2009 page 783-784 & 817-820



Mortality ratio - observed/expected hospital deaths:



Process Control



Are we doing what we think we should?

What are Care Bundles

A set of individual components which when combined, make a set of qualitative indicators, for a specific treatment, condition or procedure.

Developing Sustainable Models of Care Using a Care Bundle approach to Improving patient care

(Robb et al BMJ 340 861-863 2010)

Looked at top 25 causes of mortality

Targeted eight areas for care bundles:

> Stroke > COPD > VAP

> Heart Failure > MRSA > SSI

> C.Diff > CVC

Targeted diagnoses from Clinical Classification System

Peritonitis and intestinal abscess Senility and organic mental disorders

Pleurisy pneumothorax pulmonary collapse

Aspiration pneumonitis food/vomitus

Skin and subcutaneous tissue infections

Acute bronchitis

Urinary tract infections

Acute cerebrovascular disease

Other gastrointestinal disorders

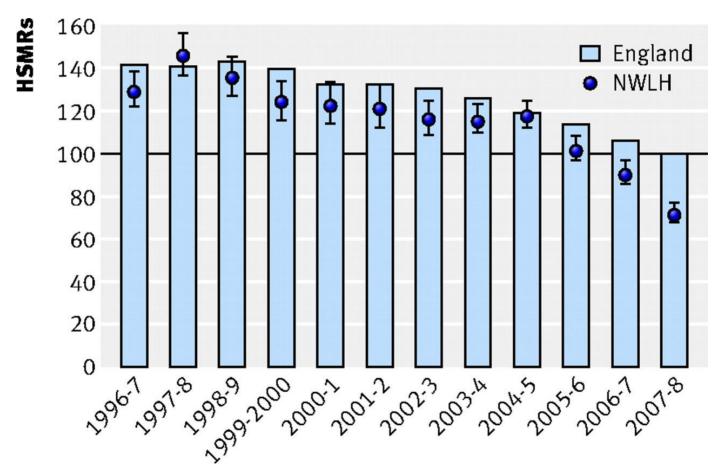
Septicaemia (except in labour)

Pneumonia

Chronic obstructive pulmonary disease and bronchiectasis

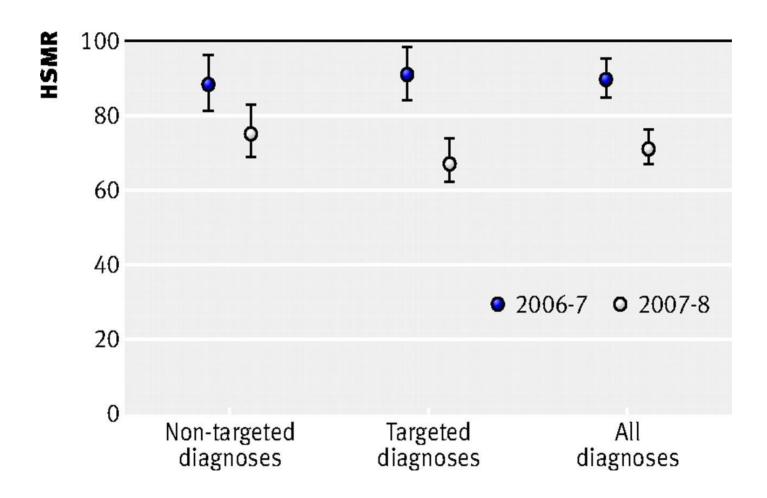
Congestive heart failure non-hypertensive

Hospital standardised mortality ratios (HSMRs) for North West London Hospitals NHS Trust and England, using 2007-8 reference baseline (England=100); bars indicate 95% confidence intervals





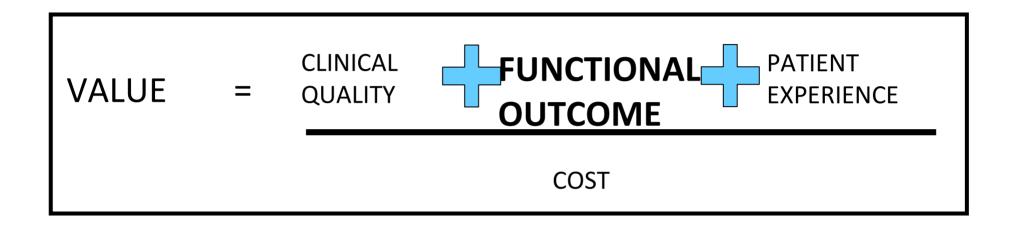
Hospital standardised mortality ratios (HSMRs) 2006-7 and 2007-8, calculated with 2007-8 national baseline; bars indicate 95% confidence intervals



Robb et al BMJ 340 861-863 2010



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Source: VHA; Michael Porter

Patient-reported Health Instruments Group

A STRUCTURED REVIEW OF PATIENT-REPORTED MEASURES IN RELATION TO SELECTED CHRONIC CONDITIONS, PERCEPTIONS OF QUALITY OF CARE AND CARER IMPACT

health

Report to the Department of Health November 2006



The National Centre for Health Outcomes Development http://phi.uhce.ox.ac.uk

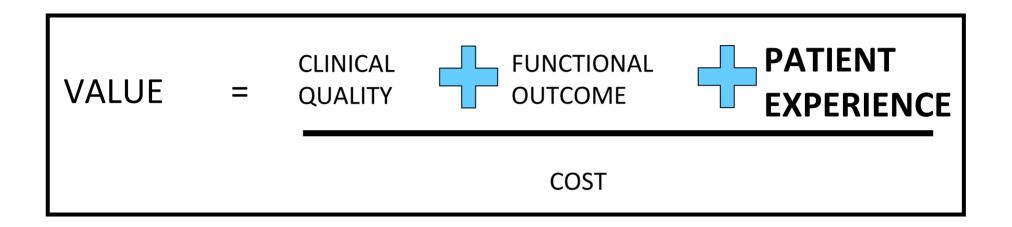
Diabetes (Chapter 6)

Ninety one articles were surveyed. Six generic instruments were identified for use in diabetes: SF-36; SF-12; Sickness Impact Profile; Health Utilities Index; Quality of Well-Being Scale; EQ-5D.

Recommendations:

Of the generic instruments, SF-36 is recommended

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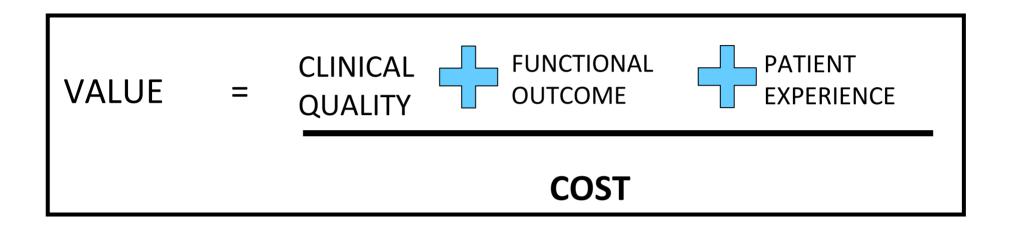
Source: VHA; Michael Porter

Real-time Patient Experience (Satisfacion)

A tool to measure and improve quality of healthcare

Dr Neal Bacon www.iwantgreatcare.org

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Source: VHA; Michael Porter

Devolved Clinical Engagement

- Accountable clinical management structure
- Service line management 'Profit Centres'

Service Line Management

(management accounts with decentralised clinical budgets)

- Define services provided and patients treated
- Identify clinical and other staff involved
- Measure costs (direct and indirect) and outcomes
- Determine profitability
- Develop service plan
- Establish annual budgeting and reporting process

Involvement of clinicians

Responsibility

Authority

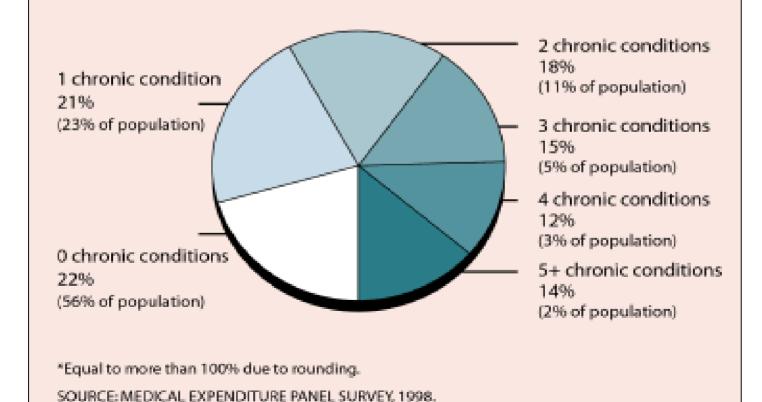
Accountability

BUT

80% of health care spending is on chronic conditions which afflict 44% of the population

More than half of health care spending is on behalf of people with multiple chronic conditions

Percent of total health care spending by number of chronic conditions* (Percent of population)



Chronic Disease; problems

- Wide variation in outcomes, clinical practice and management costs inc. hospital usage
- Need for care planning and audit (outcome measures)
- Continuous care requires a continuous accessible, facilitative electronic clinical record which can be interrogated

Wagner chronic care model

Community resources and policies: Provider organisations need links with community-based resources

Healthcare organisation: Organisations need to view chronic care as the priority.

Self-management support: Patients themselves become the principal caregivers

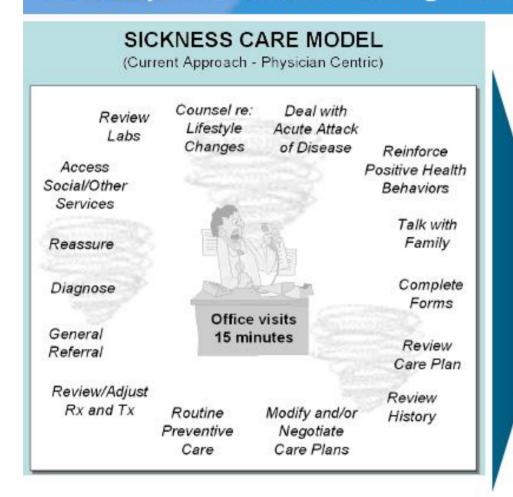
Delivery system design: Redesign of the structure of medical practice may be required

Decision support: Evidence-based guidelines provide standards for optimal care. These should be available to patient and healthcare staff alike.

Clinical information systems: data, held in electronic form, facilitates efficient and effective management of care; for example, patient registries and reminder systems.

Kaiser Permanente Is Transforming from a Traditional "Sickness Model" to Proactive Care That Helps Prevent Debilitating Illness





What is required is a new patient-centric care model, which is characterized by:

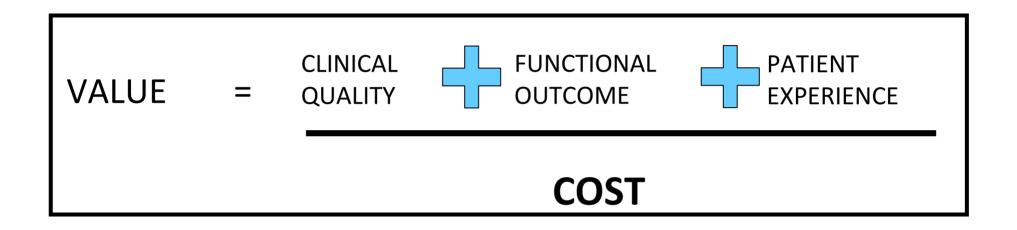
- Proactive Care Processes
- Care Delivered by a Health Care Team
- Care Integrated across Time, Place, and Conditions
- Care Delivered through Group Appointments, Nurse Clinics, Telephone, Internet, E-mail, Remote Care Technology
- Self-Management Support that Is Integral to the Delivery System

In today's complex health care world, in which chronic illness is a larger burden than ever before, a single physician cannot fulfill all the functions necessary to optimize health outcomes for patients in a series of short interactions.

Value: chronic diseases

Outcomes and costs of a year in the life of?

What is performance?



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Source: VHA; Michael Porter

Toward an Outcomes-Based Health Care System

A View From the United Kingdom

James Mountford, MD, MPH

Charlie Davie, MD

HE CORE PURPOSE OF A HEALTH SYSTEM SHOULD BE to maximize the health of the population. When the main challenge is managing long-term conditions, maintaining health rather than delivering health care per se should be the goal.

In a comprehensive, publicly funded system like the United Kingdom's National Health Service (NHS) there is an overriding imperative to deliver maximum health benefit per pound spent. Quality, effectiveness, and efficiency are the goals. Traditionally, physicians and other health

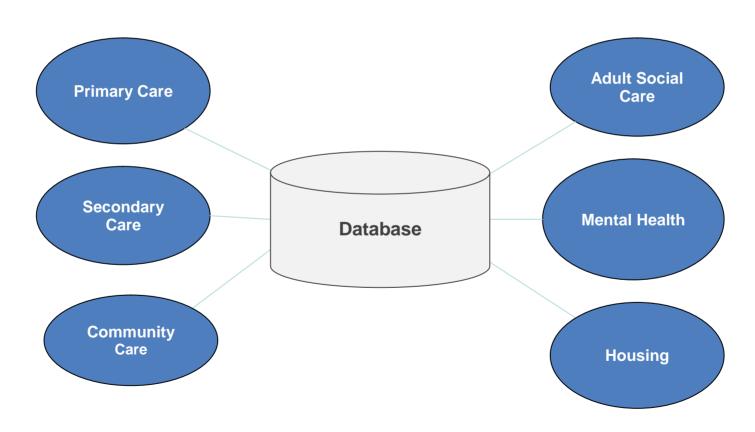
vantages. For example, they are often easier to measure than outcomes, they require less risk adjustment, and there are many examples in which a favorable patient outcome has resulted despite a defective process (or in which an unfavorable outcome has followed a faultless process). However, undue focus on process and proxy measures can have serious and often surprising consequences. Patients may have worse outcomes as a result. For example, higher mortality in high-risk patients with type 2 diabetes was associated with aggressive intervention to achieve normal glycated hemoglobin levels.⁵

2. Only viewing the tip of the quality iceberg.

An English hospital's quality rating today depends largely on its standardized mortality rate and rates of hospital-

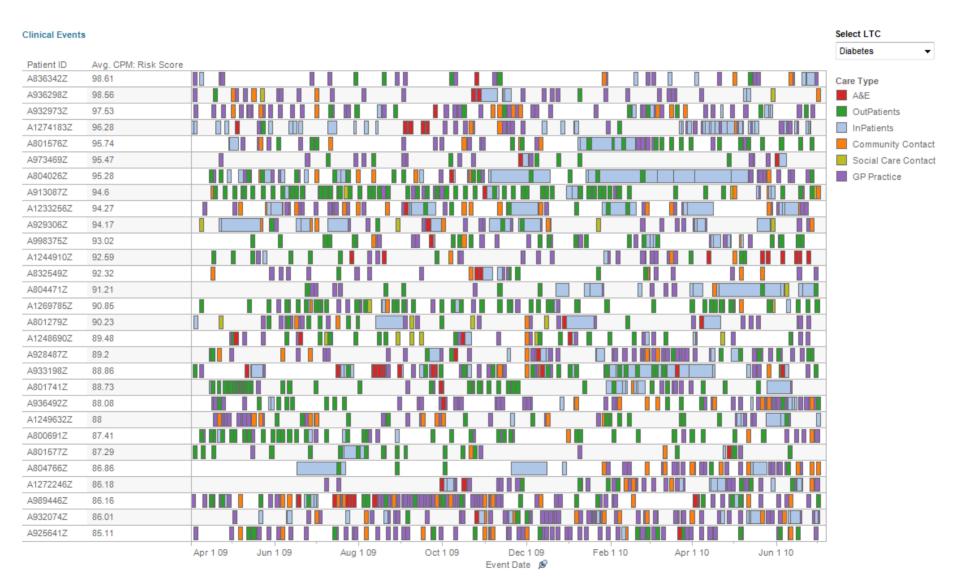
Patient Care Pathway Plus provides the capability to monitor and predict future usage of the local healthcare system

Linked up patient level information

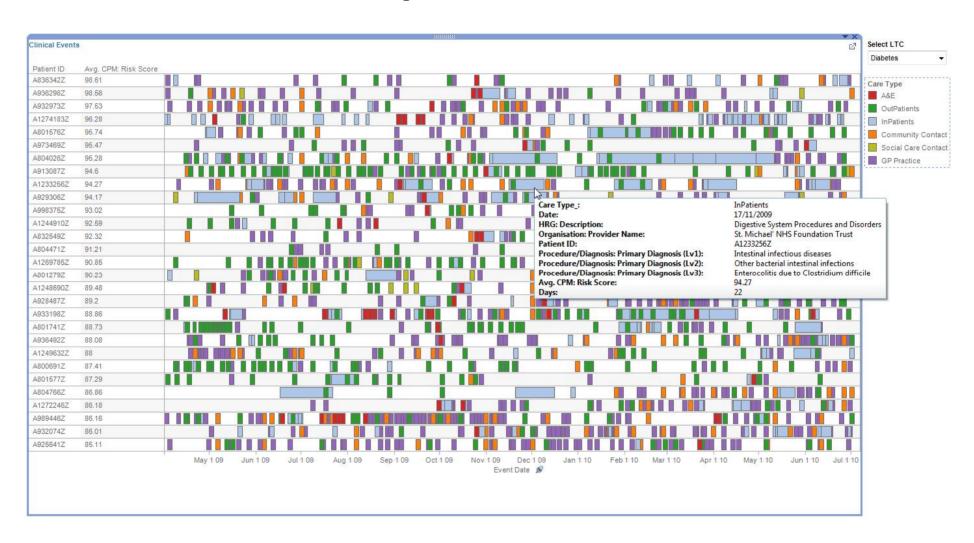




A year in the life of a group of high risk diabetic patients



A year in the life of a group of high risk diabetic patients





COMBINED PREDICTIVE MODEL

FINAL REPORT & TECHNICAL DOCUMENTATION

DECEMBER 2006



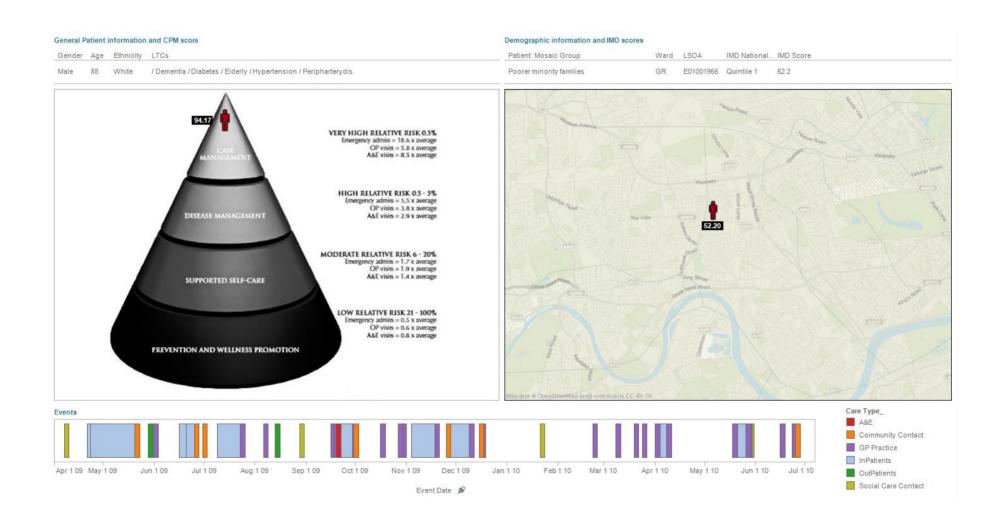








Case management indicator for an individual patient



Three dimensions of Integrated Care

- Integration between Primary and Secondary Care
- Integration between health and health care
- Integration between health professionals and carers inc. conventional and complementary practitioners and social support

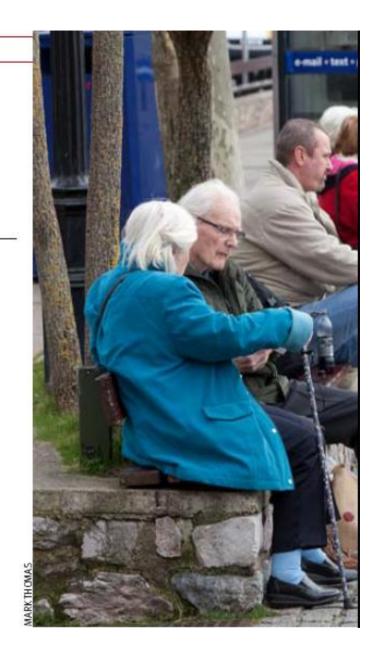
ANALYSIS

bmj.com

More articles about the NHS reforms in England at bmj.com/nhsreforms

Clinically integrated systems: the future of NHS reform in England?

Recent reforms to the NHS in England seem to make integration of care harder rather than easier. But **Chris Ham**, **Jennifer Dixon**, and **Cyril Chantler** argue that integration is not incompatible with competition and that it is essential for more efficient care



BMJ 342 740-742 2011

Essential Element of Good Preventive and Chronic Illness Care



routinely meets patient needs for:

- Effective Treatment (clinical, behavioral, supportive),
- Information and support for their self-management,
- Systematic follow-up and assessment tailored to clinical severity,
 - Coordination of care across settings and professionals



Priority for action and incentives

Quality of care

=VALUE

- Cost & Productivity
- Integrated services
- Improving health and staying healthy
- Reducing inequalities