



1.º Congresso Nacional sobre os Novos Hospitais
Tagus Park – 26 de Maio de 2009

HEALTH CARE IN AMERICA

General overview of health care cost,
technology, and financing

5/29/2009

1.º Congresso Nacional sobre os Novos
Hospitais



According to World Health Statistics

- \$2,260,000,000,000 annual cost in the US
- 15.2% of US GDP in 2005
- \$7,439 per person
- No universal health care



Who have health insurance?

- 84% of the population -- through
 - Employers (59%)
 - Government (28%)
 - Privately purchased (9%)

Overlap of about 10% due to shift in population

45.7 million are without insurance



How well is money spent?

- WHO statistics:

US	1 st	in expenditures
	37 th	in overall performance
	72 nd	in overall level of health

Comparing data from 191 nations

Spending is not evenly distributed

- 1% of population spend 27%
- 5% of population spend 50% (incl. the top 1%)
- 95% of population spend 50%

- By age
 - Over 45 years of age – top 10%
 - Under 45 years of age – bottom 90%



Who provides health care?

- Services
 - Ambulatory care
 - Home health care
 - Concierge medicine
- Facilities
 - Hospitals
 - Emergency clinics
 - Walk-in clinics
 - Parental, family-planning, and dysplasia clinics
 - Hospices



Medicine Supporting Industry

- Pharmaceutical industry
 - Medical technology industry
 - Non-profit private organizations
(e.g. Howard Hughes Medical Institute, Sloan Kettering Institute)
 - The National Institutes of Health
- 57% R&D
- 7% R&D
- 36% R&D



Spending on health care grows faster than the US economy

- Reasons:

Development and diffusion of new technology

Legal aspects: malpractice suits, countersuits, insurance claims, legal fees



Medical technology

- Procedures
 - New medical and surgical procedures (e.g. angioplasty, joint replacement, etc.)
 - Drugs (biologic agents)
- Equipment
 - CT scanners, implantable defibrillators, diagnostic laboratory equipment, monitors, etc.
- Processes
 - New support systems (electronic medical records, telemedicine, transmission of information, etc.)



Improvements

- Heart disease treatment changed over time
 - Beta-blockers
 - Clot-busters
 - Coronary artery bypass
 - Angioplasty
 - Drug-eluting stents
- Mortality rate dropped from 345.2 to 186.0 (per 100,000) in 20 years



Improvements

- Pre-mature births
 - Special ventilators
 - Artificial pulmonary surfactant
 - Neo-natal intensive care
 - Steroids

Mortality dropped to 1/3 of its 1950s level



New technology contributes to increased costs because:

- New treatment to previously untreatable conditions (AIDS, diabetes)
- Advances in clinical ability to previously untreatable acute conditions (coronary bypass, graft)
- Treatment of secondary illnesses
- Expansion of patient population
- On-going incremental improvement



But leads to savings eventually because:

- New vaccine results in fewer people needing costly treatment
- Extending treatment to new conditions
- Enlarging treatment population (e.g. better anesthesia to offer surgery to people too frail to undergo surgery)



Can spending increase continue?

- Capital budget curtailed in hospitals
- New services in niche areas spring up
- Instead of buying new, repair the old
- Match level of expertise to need
- Innovate
 - Change hours
 - Change departments
 - Get the right person at the right place at the right time



Disruptive Innovations

- Create a system where the clinician's skill level is matched to the medical problem
- Invest less money in high-end technologies and more in technologies that simplify complex problems
- Create new organizations to do the disrupting
- Overcome the inertia of regulations



Medicare

- Financed by payroll taxes: 1.45% by employee and matching amount by employer
- Covers:
 - hospital insurance and nursing home stays
 - physicians, nursing services, lab. Expenses, diagnostic services



Medicare

- Has drug insurance program administered by private insurance companies (Part D)
- Total cost: \$290 billion (\$290,000,000,000) annually
- 1.2 million health care providers
- Satisfaction is generally acceptable (4-6 on a scale of 1-6)



Medicaid

- Health insurance plan for low-income people
- Government pays part (in some cases all) of individual's medical bill
- Guidelines from Federal Government, but
- Each state has its own guidelines for eligibility



Canadian health care system

- Few years ago many claimed it to be the best
- Today it is
 - Overtaxed
 - Faces crisis
 - Patients seek treatments abroad
 - Waiting time
 - For specialist
 - For major elective surgery
 - For specialized treatment



Canadian health care system

- Waiting time
 - 57% waited 4 weeks or longer to see specialist
 - 24% waited 4 hours or longer in ER
- Canadian Government invested \$5.5 billion to solve problem
- By 2010 Canada would establish patient wait time guarantees



American health care system

- Many are desperately unhappy with it
- 16% of Americans are without any health care insurance
- Best care is available, but not everyone can afford it
- There are regulatory inefficiencies and inequities



American health care system

- Most heavily regulated industry in the US
- Regulations yield a benefit (in savings) of \$170 billion, but cost the public \$340 billion
- Emergency treatment is an area of hidden taxation
 - Since 1986 law mandates everyone to be treated regardless of ability to pay
 - More than 10 million illegal aliens in the US use it as sole medical care



American health care system

- 50% of emergency treatments are not paid for
- Some reimbursement by federal and state programs
- Rest is absorbed by the particular hospital



Comparison

- Available number of physicians and medical professionals
- US 2.7 practicing doctors (per 1000)
- Canada 2.2 practicing doctors (per 1000)
- OECD average is 3.0 doctors (per 1000)
- Cost higher in US, lower in Canada



Universal health care policy of Obama Administration

- Many sees health care as right and complain that it is too expensive
- Obama Administration wants make it affordable and accessible to all
- Wants to build on existing system
- Invest in:
 - Health information technology
 - Prevention
 - Care coordination



Why is American health care expensive?

- AMA monopoly of the supply of physicians
- Regulating insurance deductibles (by Fed. Gov't) raises the cost of insurance
- Frivolous and fraudulent law suits (courts and Congress don't want to stop it—most members are trial lawyers)
- Excess litigation
- Expensive malpractice insurance
- Defensive medicine (unnecessary tests)



Sources of Financing

- Health care depends on effective financial management as much as on quality care.
- Need companies to help doctors manage their cash-flow
- Provide capital to:
 - Group practice physicians
 - Nursing homes
 - Hospitals
 - Home health-care companies
 - Mental health care providers
 - Rehab. Or physical therapy companies
 - MRI, radiology, laboratories, etc.



Why do they need financing?

- Too new to get bank financing (less than 3yrs.)
- Accounts receivable for payroll
- Expansion or working capital
- Acquisition financing



New hospital financing

- State issues lease revenue bonds
- Channeled through well established financial concerns (e.g. First Boston, Lehman Brothers, et al.)
- Since the financial melt-down this is a huge problem
- Example of Owensboro Medical Health System (OMHS)



What lies ahead?

- Over 10 years \$630 billion reserve fund to pay for new health care
- Raised through tax increases
- Reducing and eliminating Medicare fraud and abuse (cost: approx. \$311 million)
- Health and Human Services would get \$76.8 billion excluding Medicare and Medicaid
- NIH \$6 billion for cancer research
- \$1 billion for promoting healthy life-styles
- \$19 billion for computerizing health records



What lies ahead?

- Food and Drug Administration to get \$1 billion for food safety oversight, reducing food-borne illnesses, and inspecting food facilities
- Overall cost appears to be more than most major catastrophes.

