

DEFINING THE FUTURE

Global Forum 2008 Healthcare Challenges, E-Health & New Service Models

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- Director of Health and Human Services, Northrop Grumman
- Master of Public Administration
 - University of Maryland, Baltimore campus
 - Information Systems
- Master of Business Administration
 - Johns Hopkins University School of Medicine and Carey Business School
 - Business of Health, Medical Services Management
- 20 Years of experience in public and private sectors
 - CIO level
- Northrop Grumman Health IT Solutions
 - Dept of Defense EHR provider
 - Center Medicaid and Medicare claims processing
 - Veteran's Administration VISTA
 - Numerous Public health applications in states
 - Largest single contractor to U.S. Center for Disease Control (CDC)





- Current issues healthcare
- IT-enabled solutions
- Barriers and Enablers

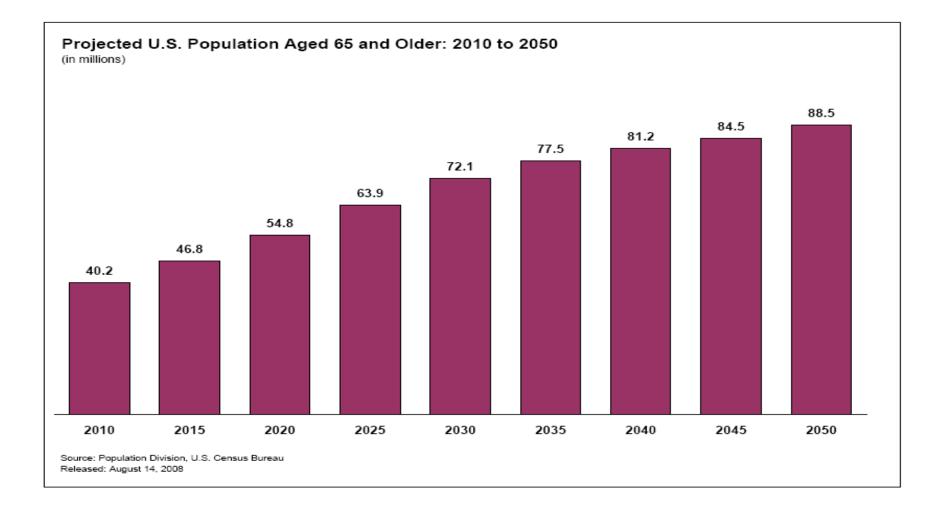




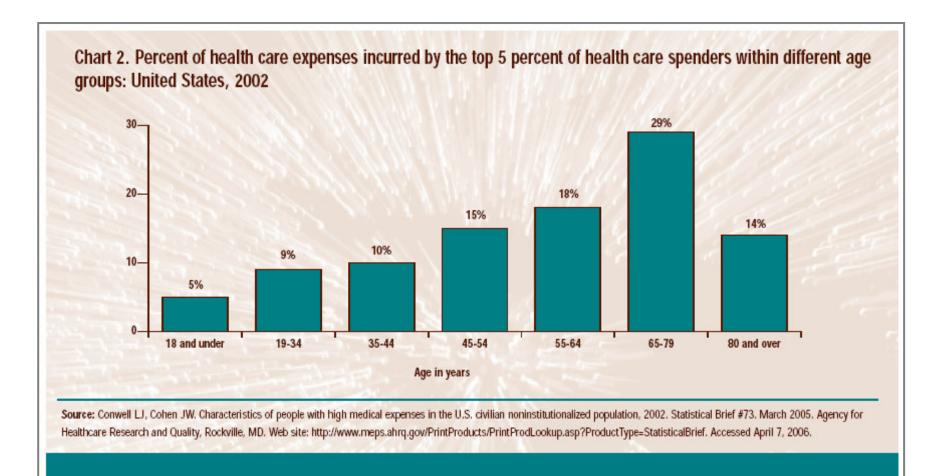
- Aging population
- Chronic disease
- Changing employment patterns
- Mobile, global workforce
- Patient empowerment

Aging

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Healthcare Cost By Age



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Chronic Disease





Hystisville, MD: National Center for Health Statistics. 2006

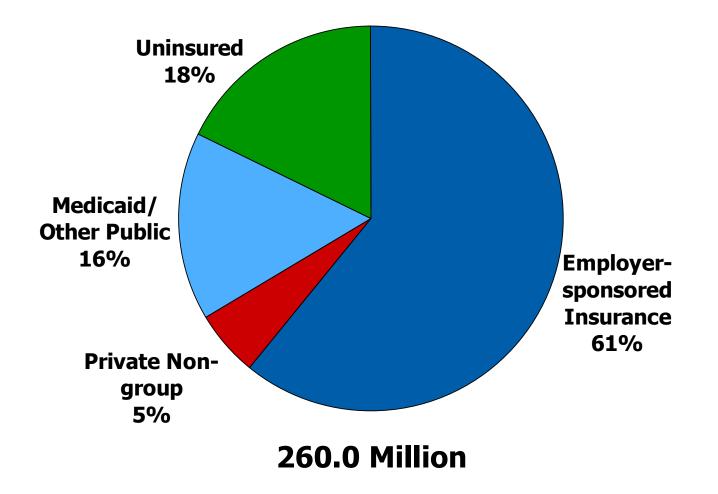
Issues



- Access
- Cost

Health Insurance Coverage of the Nonelderly Population, 2006

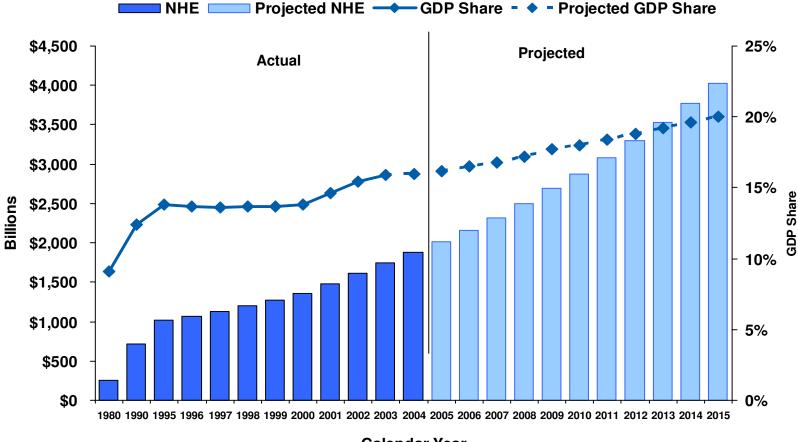




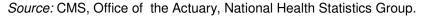


National Health Expenditures and Their NORTHROP GRUMMAN Share of Gross Domestic Product (GDP), 1980-2015

National health spending is projected to continue to increase as a share of GDP over the next decade.

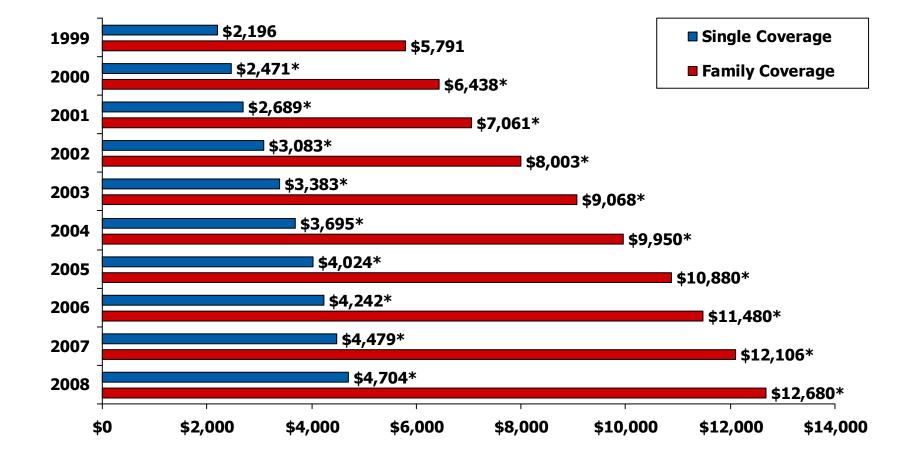


Calendar Year



Average Annual Premiums for Single and Family Coverage, 1999-2008





* Estimate is statistically different from estimate for the previous year shown (p<.05). Source: Kaiser/HRET Survey of Employer-Sponsored Health Benefits, 1999-2008.



- Health Information Exchange
 - Sponsored by States with funding from Federal Gov't
 - Represents greatest savings (Rand)
- Electronic Health Records (EHRs)
 - 17% physicians
 - 31% Emergency Rooms
 - 29% Hospitals

Compared to UK and European nations US adoption is quite slow

- Telehealth/telemedicine
 - CAGR of 56% vs. 9.9%
 - Home care
 - Telehealth monitoring
 - Devices



- Nationwide Health Information Network (NHIN)
 - Sponsored by U.S. Gov't
 - Goal to exchange electronic health records by 2014
- RHIOs/HIEs
- DoD VA
 - World's largest EPR
 - Must track service personnel
 - Active duty
 - Veterans
- Commercial subscription services (i.e. Surescripts, Covisint/NGIT HIE service)

EHR Adoption in U.S.



- Slow in US
 - Presidential directive "...most by 2014"
 - Currently hovers below 20%
- Mandates
 - E-prescribing
 - Claims submission
- Incentives
 - HHS just announced Medicare EPR reimbursement for physicians
 - With recent Medicare change, more growth expected, but too early to quantify
- ROI is not achieved until 3-5 years
 - Only achieved if implementation is successful and usage high
- EHRs access not yet available to patients in most cases
 - Example: http://www.thehealthplan.com/

Telehealth and Home Care



- The use of digital networks to remotely monitor and treat patients.
- An emerging market with great potential to improve the quality of and delivery of care while decreasing costs
- Work processes and technology need to improve before telehealth adoptions
 becomes more widespread
- Traditional live-interactive video telehealth (i.e. http://www.teleatrics.com/)
 - Remote consults
 - Patient to physician
 - Physician to physician
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 - Remote consults
 - Patient to physician
 - Physician to physician
- Store and forward (S&F) telehealth
 - Sending data, messages, images that can be stored and read/evaluated at later time
 - Includes radiology images, reports, lab results, clinician reports, etc.
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Telehealth and Home Care



- Home monitoring telehealth
 - Increasing use of wireless technologies
 - Applications
 - Diabetes monitoring
 - Heart monitoring
 - Real time or store and forward
 - Device's communication with in-home network connected to external network for transmission
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- Saves costs of visits and need for skilled nursing care
- Current growth projections: Home health care will grow at five year compound annual growth rate of 56%
 - Only 9.9% in clinical market (Datamonitor, December, 2007)





- Interoperability
- Privacy/Security
- Legacy systems
- Broadband
- Cross-border
- Cost



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