

Exploring the Intersections of Health, Technology and Equity

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Objectives



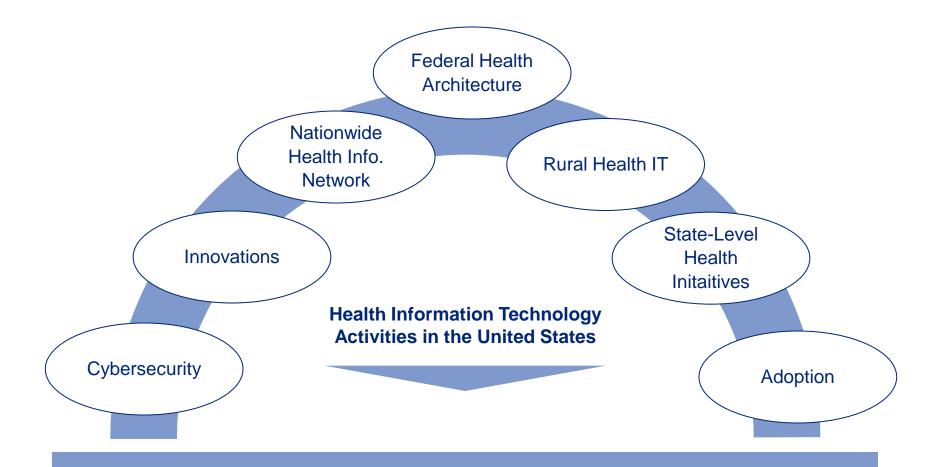
- 1. Overview of the status of HIT and what is happening with HIT in the U.S.
- 2. The Federal Government's perspective status of HIT in the public and private sector
- 3. The expansion and role of HIT in people's health and well-being



Overview of Status of HIT in the United States



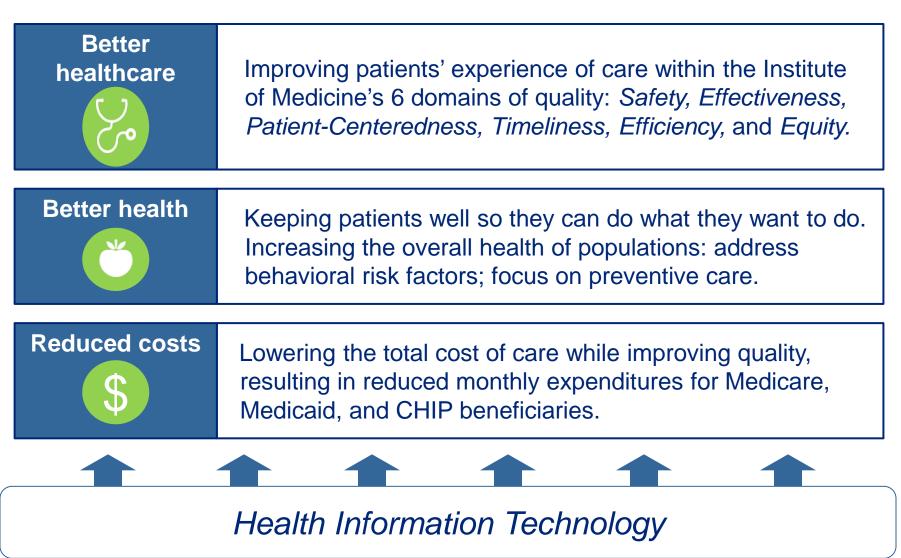
HIT in the United States



These initiatives serve the need of various stakeholders to foster health IT adoption

HIT in the United States







Cybersecurity

- 1. Meaningful Use
- 2. HIPAA Privacy and Security

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Federal Government Responds: HITECH Act



Part of American Recovery and Reinvestment Act of 2009 (ARRA)

Goal: Every American to have an EHR by 2014

Systematically addresses major barriers to adoption and Meaningful Use:

- Money/market reform
- Technical assistance, support, and better information
- Health information exchange
- Privacy and security



Meaningful Use Takes Off

- 52% percent of office-based physicians intend to take advantage of EHR incentives
- The percentage of primary care providers who have adopted EHRs in their practice has doubled from 20% to 40% between 2009 to 2011
- ONC's Regional Extension Centers (RECs) have signed up more than 100,000 primary care providers
- This means that *roughly one third* of the nation's primary care providers have committed to meaningfully using EHRs by partnering with their local REC. Momentum is *building*!
- Hospital adoption has more than doubled since 2009, increasing from 16% to 35%
- Most (85%) of hospitals intend to attest to Meaningful Use by 2015



Privacy and Security

- HIPAA Security Rule
 - In health care, accurate and complete information about individuals is critical to providing high quality, coordinated care
 - Coordinated attention at the Federal and State levels is needed both to develop and implement appropriate privacy and security policies.
 - Only by engaging all stakeholders, particularly consumers, can health information be protected and electronically exchanged in a manner that respects variations in individuals' views on privacy and access.

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Innovations

- 1. Prizes and Challenges Investing in Innovations
- 2. Startup America at HHS
- 3. Health Data Initiative
- 4. AHRQ Innovations Exchange at the Agency for Healthcare Research and Quality (AHRQ)
- 5. popHealth
- 6. MedlinePlus Connect at the National Library of Medicine and National Institutes of Health

The Health Data Initiative: turning HHS and our sister agencies into the "NOAA of health data"





Unleashing the power of data



These datasets and tools have been gathered from agencies across the Department of Health and Human Services (and other sources) with the goal of improving health for all Americans. The data sets are increasingly available in a variety of machine-readable formats and via Application Programming Interfaces (APIs), making it easier than ever to consume data.

Just how much information is out there? Consider just a few examples:



MedlinePlus Connect has information for <u>over 900 diseases, illnesses, health</u> <u>conditions and wellness issues</u>. This service allows health organizations and health IT providers to link patient portals and electronic health record (EHR) systems to MedlinePlus, an authoritative up-to-date health information resource for patients, families, and health care providers.



ClinicalTrials.gov, a registry of federally and privately supported clinical trials, currently has <u>115,266 trials</u> with locations in <u>177 countries</u>.



The Department of Agriculture's Myfoodapedia provides information on the total calories and saturated fat content of over <u>1,000 commonly eaten foods</u>.



Data.Medicare.Gov COMPARE APIs provide detailed quality performance data for thousands of individual hospitals, nursing homes, home health agencies, and <u>dialysis providers</u> across the country.

Where to find the data: <u>Health.Data.gov,</u> the one-stop place to get all of our free, publicly available data

Special Features

Health

Initiative

VIEW MORE

Forum

Data



Welcome to the

Health Data Community

You've found a public resource designed to bring together high-value datasets, tools, and applications using data about health and health care to support your need for better knowledge and to help you to solve problems. These datasets and tools have been gathered from agencies across the Federal government with the goal of improving health for all Americans. Check back frequently because the site will be updated as more datasets and tools become available.

More Information

Home Data/Tools Apps Expo Other Data Sites Blogs Forums

Data.gov » All Communities

Recent Blog Post



What's New



Challenges

Q Search This Community ...



SEARCH

Examples of health data resources that are available



Listed below are just some of the key health data sets available that could be utilized in applications/services that help care providers, consumers and communities. See pages following for brief summaries of each data set. And check out Health.Data.gov for a much more comprehensive listing of available data resources.

| | If you are building an app/service for | | |
|---|--|--------------|--------------|
| Type of Data Set | Providers | Consumers | Community |
| Provider Quality COMPARE APIs at data.medicare.gov | \checkmark | \checkmark | \checkmark |
| Hospital / Nursing Home / Home Health / Dialysis Compare | ✓ | \checkmark | ✓ |
| FQHC (Federally Qualified Health Center) Directory | \checkmark | \checkmark | \checkmark |
| National Plan and Provider Enumeration System (NPPES) Downloadable File | ✓ | \checkmark | ✓ |
| National Library of Medicine API Portal | \checkmark | | |
| MedlinePlus Connect | ✓ | \checkmark | |
| Clinicaltrials.gov API | \checkmark | \checkmark | |
| NIH's Visible Human Project | ✓ | \checkmark | |
| NLM's TOXMAP: Online Toxicology Maps | \checkmark | \checkmark | \checkmark |
| VitalStats | \checkmark | \checkmark | |
| Cancer Incidence – Surveillance, Epidemiology, and End Results (SEER) Registries | \checkmark | | \checkmark |
| FDA Recalls (drug, food and product) | ✓ | \checkmark | |
| HealthCare.gov Insurance Plan Directory | \checkmark | \checkmark | \checkmark |
| Mental Health Services Directory/Substance Abuse Treatment Center Directory | ✓ | \checkmark | ✓ |

Examples of health data resources that are available



| | If you are building an app/service for… | | |
|--|---|--------------|--------------|
| Data Set | Providers | Consumers | Community |
| Household Products Database | | ✓ | |
| USDA's MyFood-a-Pedia | | ✓ | |
| "Blue Button" data (the ability for veterans, Medicare beneficiaries and active duty military to download their own personal health information) | \checkmark | \checkmark | |
| Dietary Supplements Labels Database: brands, ingredients and references | \checkmark | ✓ | |
| Hospital, Skilled Nursing Facility, Home Health Agency, Renal Dialysis Facility, Hospice Cost Report Data | \checkmark | | \checkmark |
| National Health Expenditures | | | \checkmark |
| Medicare Claims "Basic Standalone Files" | \checkmark | | \checkmark |
| Health Indicators Warehouse | ✓ | | ✓ |
| QuitNowTxt SMS Library | | ✓ | \checkmark |
| Medical Expenditure Panel Survey (MEPS) | ✓ | | |
| Wide-ranging Online Data for Epidemiologic Research (WONDER) | \checkmark | | \checkmark |
| Web-based Injury Statistics Query and Reporting System (WISQARS) | ✓ | | ✓ |
| Your Food Environment Atlas | \checkmark | ✓ | \checkmark |
| Behavioral Risk Factor Surveillance System (BRFSS) | \checkmark | ✓ | ✓ |

The Third Annual Health Data Initiative Forum – The Health Data Palooza!

- This year's Palooza will take place <u>on June 5-6</u>, <u>2012</u> at the Walter E. Washington Convention Center in Washington, DC.
- This year's event will be hosted through the Health Data Consortium, a public-private partnership between the Institute of Medicine, Robert Wood Johnson Foundation, Consumers Union, Academy Health, Innocentive, Health 2.0, the Mayo Clinic's Center for Innovation and several other organizations.
- Will showcase 250 of the best innovations in three tracks: consumer, provider and community apps
- Please visit <u>www.hdiforum.org</u> for more information on registration, timelines





Rural Health IT



- USDA Programs:
 - <u>Community Facilities Program</u>, which provides direct and guaranteed loans as well as grants for community facilities projects in rural areas.
 - **Distance Learning and Telemedicine Grant Program**, which may provide grants to help bring telemedicine services to rural communities.

State-Level Health Initiatives



- State Health Policy Consortium
- State Alliance for eHealth
- Health Information Security and Privacy Collaboration (HISPC)
- State-level Health Information Exchange Consensus Project

The Beacon Community Program

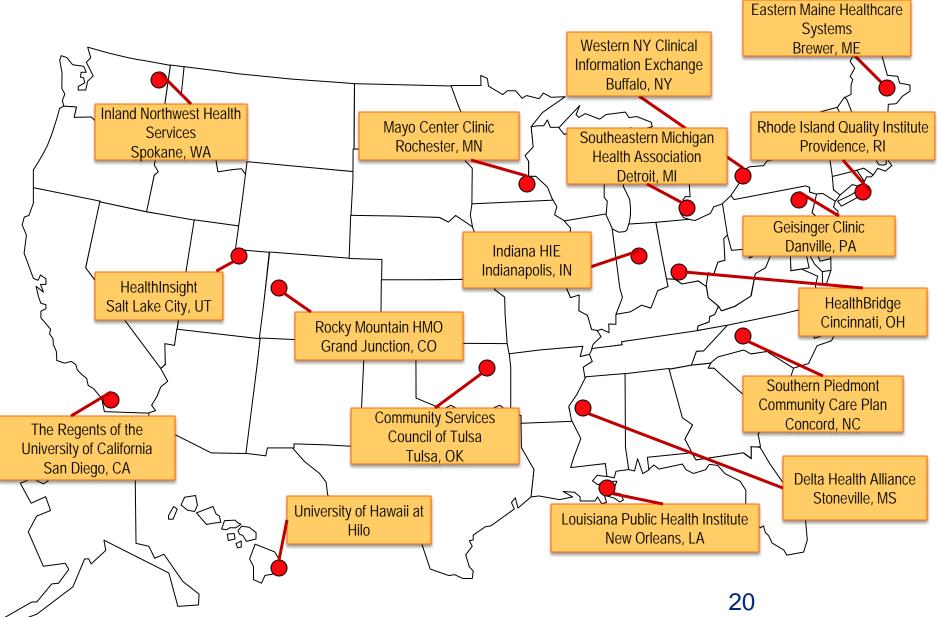


Goal: Share best practices that help communities achieve cost savings and health improvement

17 demonstration communities that will:

- Build and strengthen their HIT infrastructure and exchange capabilities and showcase the Meaningful Use of EHRs
- Provide valuable lessons to guide other communities to achieve measurable improvement in the quality and efficiency of health services or public health outcomes

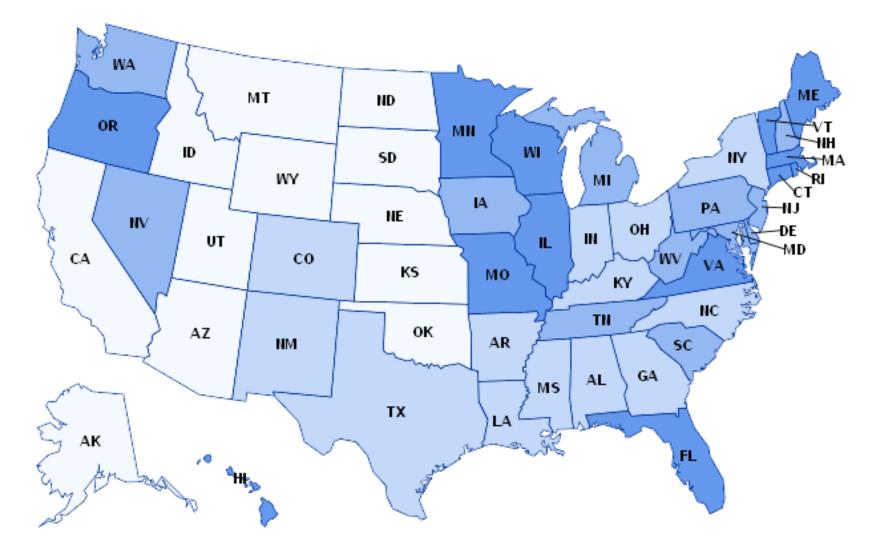
17 Beacon Communities





The Federal Government's Perspective – Status of HIT in the Public and Private Sector

AHA Survey – implementation % by state of at least Basic EHR



At Least Basic 7.33 - 23.27 25.38 - 33.89 34.80 - 43.77 43.80 - 66.84

Workforce Training Programs



- Goal: Help train up to 50,000 new HIT workers to assist providers in becoming Meaningful Users of EHRs
- Four distinct programs that aim to support the education of new HIT professionals, including:
 - Community college consortia
 - Curriculum development centers
 - University-based training
 - Competency examination program

Community College Consortia – Students Enrolled and Students Completed (Cumulative)



How to make data actionable

Open HHS data can help power applications, products, services, and features that help consumers take control of their health and health care, doctors and nurses provide better care, and community leaders make better-informed decisions.

Here are some of the many examples of how open data has already been leveraged to do so:

The Healthline search engine has ingested massive amounts of data from HHS agencies (e.g., CDC, NIH, CMS, AHRQ, FDA, etc.) and other sources to help make internet search on health topics and issues substantially more reliable, accurate, and helpful. Aetna has integrated HHS data on everything from care provider quality to the availability of eldercare support services to the latest medical education information for patients into an "IT cockpit" for nurse case managers in its call centers to help these nurses provide information-rich support for patients.



databases to help consumers

are right for them.

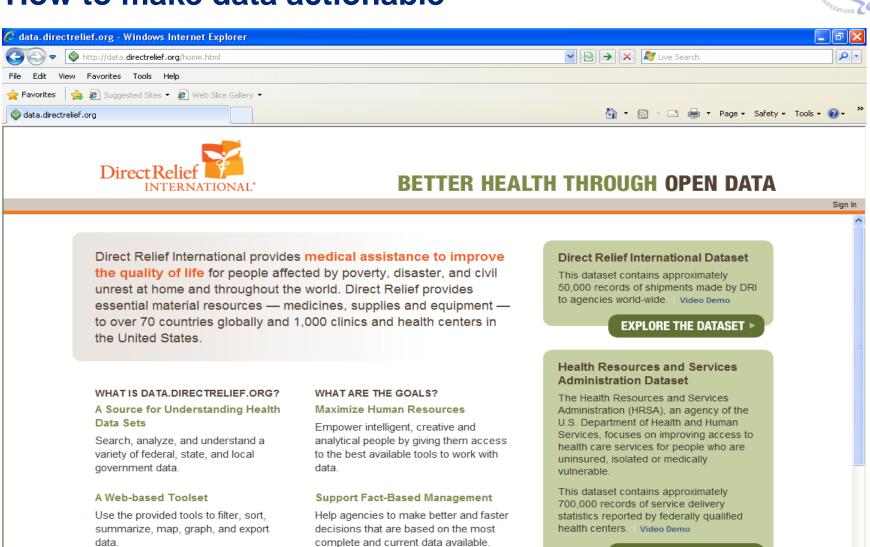
find nearby care providers that





How to make data actionable





A Resource for Citizens and

Done

Achieve Transparency

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Txt4Health Campaign Objectives

- Provide targeted outreach to (at-risk and undiagnosed) adults through mobile devices
- Reduce burden of diabetes in adult populations through risk awareness, education, and behavior change
- Link individuals to care and community resources



Crescent City (New Orleans) - MarketingCollateral/Creative



Outdoor billboard

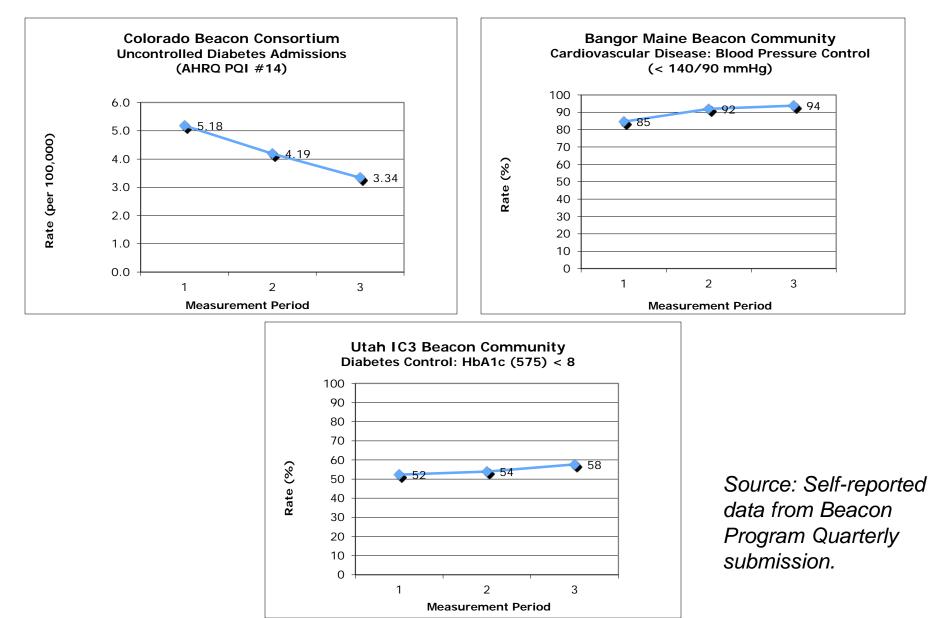




Television Ad

17 Beacon Communities







The Expansion and Role of HIT in People's Health and Well-being

Why Should You Use Health IT to Engage Your Patients?





- •Patient as Partner
- •Engaged patients demonstrate better health outcomes
- •Patients increasingly expect engagement via IT, as in many other aspects of their lives
- •Meaningful Use criteria

66% of Americans say they would consider switching to a physician who offers access to medical records through a secure Internet connection – according to a 2011 Deloitte Survey

Between Clinical Encounters

Some Relevant Information

- Approximately 50 million Americans (roughly 20%) have accessed their health information online. (Manhattan Research, 2011)
- More than half (52%) of Americans say they would use a smart phone or PDA to monitor their health if they were able to access their medical records and download information about their medical condition and treatments. (Manhattan Research, 2011)
- 26% of Americans use mobile phones for health. This has more than doubled since the previous year. (Manhattan Research, 2011)
- Remote patient monitoring is expected to grow by 25% per year (Kalorama Information, 2011)





Examples: helping consumers take control of their health and health care



- iTriage
- Healthline
- Castlight
- Patients Like Me
- Asthmapolis
- Food Oasis



Examples: helping care providers deliver better care (and succeed as accountable delivery systems)

- Aetna
- Essence Group/Lumeris
- Doximity
- Press Ganey
- Rise Health
- ElizaLIVE





XAetna



Blue Button Download My Data



How Health IT is Changing America



Why does America need to modernize using Health IT?

What is America doing to modernize its Healthcare System through Health IT?

- Enable providers to securely and efficiently exchange patient health information.
- Give providers the right information, at the right time to offer their patients the right care.
- Give consumers tools to know their health information so that they can improve their health.
- Foundational to building a truly 21st century health system where we pay for the right care, not just more care.

