Health Care Data

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About HCCI

HCCI is a non-profit, independent, non-partisan research institute dedicated to creating the United States’ most comprehensive source of information on health care activity and promoting research on the drivers of health care costs and utilization. Founded in 2011

- **Public mission** - improving US health system by creating comprehensive data infrastructure and analytics

- **Research** - We currently hold claims, with allowed amounts, for more than 50 million Americans, from 2007 onward which we make available for academic, non-commercial research

- **Transparency** – Guroo.com is an independent, free, user-friendly source of price information for consumers of health care services based on billions of current claims

- **Support** from Aetna, Humana, Kaiser Permanente, UnitedHealthcare. Foundation support/contracts with Robert Wood Johnson, Pew, Commonwealth Fund, John and Laura Arnold Foundation; support from others welcome
Current and Future HCCI Data

HCCI currently holds claims data on **50 million people** per year (2007 – 2014)

### 2014
- Administrative Claims
  - employer-sponsored insurance
  - individual insurance;
  - Medicare Advantage (Part C)
- All 50 states and D.C.
- Updated bi-annually
- HIPAA-compliant, de-identified
- Vermont data for public reporting purposes
  - other APCD data

### 2015
- By end of 2015:
  - Medicare (2009+) through Qualified Entity Program
    - Part A (100%)
    - Part B (100%)
    - Part D (~40%)
- In 2015, data from State APCDs
- Other commercial data from additional insurers
- SGR fix – Medicaid and CHIP

*Everything HCCI does is HIPPA and anti-trust compliant and protective of company information*
Where Does HCCI Get Its Data From?

- **Insureds See Health Care Providers**
  - CLAIMS
    - Aetna Kaiser Permanente
    - Humana UnitedHealth

**Health Care Cost Institute**
- Aggregate
- Weight
- Analyze

Public Reporting on Cost and Utilization
Public Reporting Data – UB-04 Claim Form

Rev Codes tell where the patient was when they received services or what type of item they received.

HCPCS codes medical items, services and supplies. More than 8,000 codes. HIPPS codes are prospective payment codes.
ICD-9 codes – 3749 “Disorder of the eyelid.”
There are some 17,000 ICD-9 codes.
HCCI Reports

All HCCI reports are free and available online.

- Annual cost and utilization reports as well as issue briefs
- Academic articles
- Cited source of data
Our Vision - Smart Data in Health Care

Figure 1: The Data Enclave

Source: http://healthaffairs.org/blog/2014/01/27/the-need-for-a-smart-approach-to-big-health-care-data/
Data Enclave

Traditionally CMS distributed Medicare data by cartridge to researchers. Given the size of the HCCI data, HCCI has worked with NORC at the University of Chicago to create a scalable secure work environment (the Enclave) with all the computing capacity and tools that researchers want. Two statistically de-identified files with appropriate security environment.


Arnold State Research Grant Program – 5 funded grants to universities to study state reform initiatives.
Health Care Data Issues

• HIPAA – federal law relating to privacy of health care data
  • currently 2 statistically de-identified data sets available to researchers
• Antitrust – since HCCI holds data with actual allowed amounts (the paid amounts), need to ensure that the data are not used for anticompetitive purposes
• Company confidentiality - companies share their data but expect us to mask it in a manner that protects their negotiated prices
• Size of the data a challenge to researchers – secure data enclave
Additional Challenges

• Never enough data – rare health care events or rare interventions require ever larger data sets
• Reluctance on the part of other data contributors to “share”
• HIPAA – researchers generally want to merge data into HCCI data sets – at considerable cost
• Different data – goal ultimately is to link EMRs to claims data to study cost effectiveness
• Goal of HCCI is to create data infrastructure that facilities building and sharing of data