The Role of All Payer Claims Databases (APCDs) in Understanding Public Health Trends

North Carolina Institute of Medicine
Task Force on All-Payer Claims Database

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Assisted **strategy, implementation** and **operations** of APCDs in 16 states

- Stakeholder engagement
- Legislation and regulation; governance
- Vendor selection and oversight
- Project Management
- Analytics and reporting plan
- Sustainability
Public Health Use Cases

- The aggregated claims data collected by APCDs can be used to understand **state-wide** and **regional** trends of:
  - Disease prevalence
  - Disease incidence
  - Total cost of care
  - Medication utilization
  - Treatment patterns
  - Readmission rates
  - Disparities in care
  - Overutilization, appropriateness of care
Example: Colorado

Filter the Claims Data:
Select criteria below to filter the data from the APCD

- Type of healthcare metric: Depression Prevalence
- Type of payer data: All Current Payers

Display Results:
Select how you would like the results displayed.

- View by: County
- Show metric as: Actual value

Map | Data Sheet
Click on up to three areas on the Map below, for detailed reporting.

Counties selected for reports:
No areas selected.

Help
- All Current Payers Compared to Expected (C2E)
- Completeness Score (C-score)
- County
- Depression Prevalence Index

Legend
Depression Prevalence

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Source: CIVHC www.comedprice.org
Health Facts RI (RI APCD) report “Potentially Preventable Readmissions Related to Behavioral Health in Rhode Island”

Top 10 Reasons for Initial Admissions that Result in Potentially Preventable Readmissions (2013)

Substance Abuse: PPR Rate: 14%
Mental Health
Cardiology
Gastroenterology
Pulmonary
Open Heart Surgery
Hematology
Urology/Nephrology
Cardiac Catheter
Cardiovascular Surgery

Total Cost for PPRs Related to a Substance Use Disorder Initial Admission (2013)

- Alcohol Abuse & Dependence
- Opioid Abuse & Dependence
- Other Drug Abuse & Dependence

Source: http://www.health.ri.gov/data/pprbehavioral/
Example: Rhode Island

- Health Facts RI (RI APCD) report “A Preliminary Look at Chronic Conditions in Rhode Island”

Top 10 Most Common Chronic Conditions in Rhode Island

- Total Number of Insured Rhode Islanders with Each Condition

- Top 10 Conditions:
  - Hypertension
  - Diabetes
  - Depression
  - GI Disorders, Minor
  - Asthma
  - Thyroid Disease
  - High Cholesterol
  - Endocrine & Nutrition Disorders
  - Joint & Musculoskeletal Disorders
  - Certain Neurological Disorders

Inpatient Admissions (per 1,000 insured Rhode Islanders/Year) for Patients with High Spending Conditions

Source: http://www.health.ri.gov/data/chronicconditions/
Discussion

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