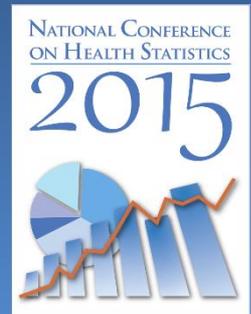


Impact of ICD-10-CM/PCS on the National Health Care Surveys

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August 24, 2015



National Health Care Surveys

- **National Ambulatory Medical Care Survey (NAMCS)**
 - Visits to office-based physicians and community health center providers.
 - Since 1973, annual since 1989

- **National Hospital Ambulatory Medical Care Survey (NHAMCS)**
 - Visits to Emergency Departments, Outpatient Departments, and Ambulatory Surgery Locations
 - Annual survey since 1992

- **National Hospital Care Survey**
 - Visits to hospitals, including both inpatient and outpatient settings (emergency, outpatient, and ambulatory surgery)
 - Ongoing since 2011

NAMCS/NHAMCS Data Collection

□ Facility-level data

- Collected through in-person interviews
- Includes visit volume, EHR adoption, other administrative questions

□ Visit-level data

- Sample of visits for a pre-selected period of time
- Abstracted onto Patient Record forms (PRFs)
- Includes patient demographics, reason for visit, diagnosis, procedures, and medications

NHCS Data Collection

- **Facility-level data**
- **Visit data**
 - **Electronic data for all inpatients and ambulatory visits:**
 - Electronic health record (EHR) data
 - Uniform Bill (UB) 04 administrative claims data
 - State data files
 - **Abstracted data for a sample of ED and OPD visits including ambulatory surgery:**
 - Oversampling of ED substance-involved visits
 - Clinical information (e.g., labs, medications)

Abstracted Ambulatory Data: Diagnosis and Procedure Data

- ❑ **Before 2012 (ICD-9-CM)**
 - Paper PRFs
 - Data keyed and coded by a contractor

- ❑ **2012 – 2015 (ICD-9-CM)**
 - Computerized PRFs on secure laptops
 - Data entered as verbatim fields and also selected from a dropdown menu
 - Verbatim fields still coded by contractor

- ❑ **2016 (ICD-10-CM/PCS)**
 - Computerized PRFs
 - Verbatim fields only; no dropdown menus

Abstracted Ambulatory Data: Dropdown Menus

A look at the Dropdown Menus

- Started in 2012
- Lists of most commonly entered diagnoses and procedures from previous years of data
- Abstractor asked to write in the verbatim data, and then select the appropriate entry from the dropdown menu
- Menu selections were mapped to **ICD-9-CM** codes in data processing

Analysis of 2012 data found a 10% error rate between verbatim entries and dropdown menus

Data Uses

- Changes in utilization and practice
 - Diagnoses, tests/procedures, prescribing
- Quality of care
 - Impact of performance measures and educational campaigns
 - Healthy People 2010 & 2020 objectives
- Health disparities
- Condition-specific rates
 - Chronic conditions
 - Injuries
- **Impact of ICD-10:
Ambulatory Operations**
- **Training**
 - Train field representatives to record more detail for diagnosis and procedures verbatim fields
- **Recruitment**
 - Physician groups and hospitals may be reluctant to participate because of ICD-10-CM/PCS implementation demands
- **Coding the data**
 - Contractor must train staff to code verbatim diagnosis and procedure data into ICD-10-CM/PCS

Impact of ICD-10: Ambulatory Operations

□ Training

- Train field representatives to record more detail for diagnosis and procedures verbatim fields

□ Recruitment

- Physician groups and hospitals may be reluctant to participate because of ICD-10-CM/PCS implementation demands

□ Coding the data

- Contractor must train staff to code verbatim diagnosis and procedure data into ICD-10-CM/PCS

Dual-Coding ICD-9 and ICD-10

- **Last quarter of 2014 verbatim data coded into both ICD-9 and ICD-10**
 - Diagnosis
 - Procedures
 - Cause of injury
- **Issues identified**
 - Lack of specificity in verbatim (no text describing severity/laterality)
 - Difference in codes available
 - e.g. Cellulitis and abscess
 - 1 code in ICD-9; 2 in ICD-10

Impact of ICD-10: NHCS Operations

□ **Recruitment:**

- Reluctance to participate because of ICD-10 implementation demands on IT staff

□ **Sampling of ED and OPD visits:**

- Update diagnoses codes for sampling ED substance-involved visits
- Update diagnoses codes for sampling OPD non-procedure visits

Impact of ICD-10: Data Analysis

- **Educate staff**
- **Convert thousands of diagnosis and procedure codes from ICD-9-CM to ICD-10-CM/PCS**
 - **Examples:**
 - Coronary atherosclerosis
 - 8 ICD-9-CM codes (414.00-414.07)
 - 40 ICD-10-CM codes (forward and backward coding)
 - Angioplasty
 - 1 ICD-9-CM code (39.50)
 - 854 ICD-10-PCS codes (forward and backward coding)

Impact of ICD-10: Data Analysis (Cont.)

- **Update data processing, data check, and data analysis computer programs**
- **2015 estimates:**
 - 12 months of data with ICD-9-CM codes and 3 months with ICD-10-CM/PCS codes
- **Trend analysis:**
 - Develop inpatient and ambulatory crosswalks from ICD-9-CM to ICD-10-CM/PCS
 - Top 20 diagnoses and procedures?
 - Top 100 diagnoses and procedures?

Impact of ICD-10: Data Dissemination

- ❑ **Develop new web tables and publication templates**
- ❑ **Release web tables and publications in a timely manner**
- ❑ **Educate data users:**
 - **Develop documentation for public use files**
 - **Develop documentation for trend analyses**

Thank you!