Ambulatory and Hospital Care Statistics Branch Overview

NCHS Board of Scientific Counselors

Paul Beatty and Jane Sisk January 22, 2009



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
National Center for Health Statistics



Topics

- Mission
- Surveys
- Data products
- Dissemination and uses of our data
- Key challenges and future plans

Role of AHCSB within the Division

The Division's Mission

To collect, analyze, and disseminate data on the use, access, quality, and cost of health care provided in the United States, and the health care organizations who deliver that care.

The Branch's Role

To collect, analyze, and disseminate those data that specifically relate to ambulatory and hospital care providers, their services, and the people they serve.

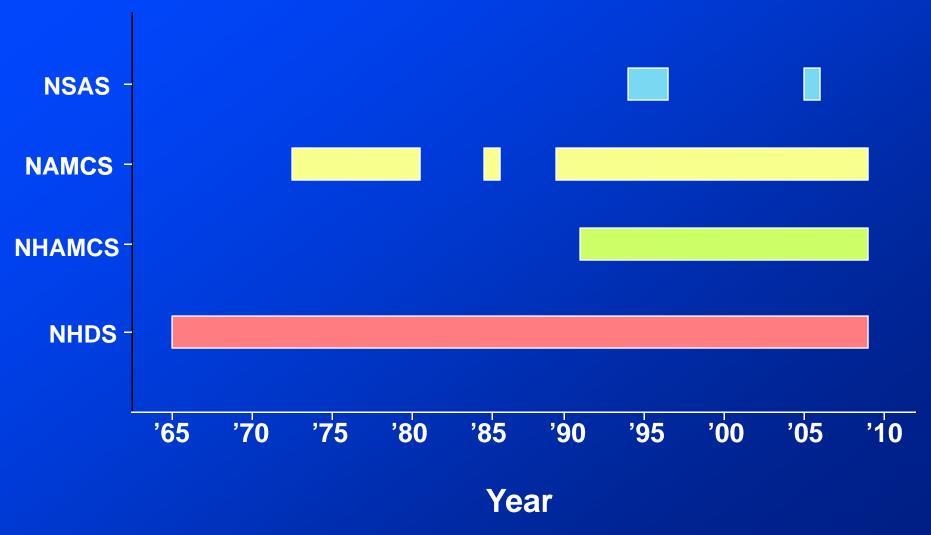
National Health Care Surveys

- Ambulatory and hospital care surveys
 - National Ambulatory Medical Care Survey (NAMCS)
 - National Hospital Ambulatory Medical Care Survey (NHAMCS)
 - National Survey of Ambulatory Surgery (NSAS)
 - National Hospital Discharge Survey (NHDS)
- Long-term care surveys
 - National Nursing Home Survey (NNHS)
 - National Home and Hospice Care Survey (NHHCS)
 - National Survey of Residential Care Facilities (NSRCF)

Distinctive Aspects of the Surveys

- Surveys of establishments (not households)
- Encounter-level data
- Some data collected through interview, particularly facility-level
- Patient-level data abstracted directly from medical records





National Ambulatory Medical Care Survey (NAMCS)

- Visits to non-federal, office-based physicians primarily engaged in patient care
- Data at practice, clinician, and patient level
- Flexible content: questions added and deleted, with supplemental modules

NHAMCS and **NSAS**

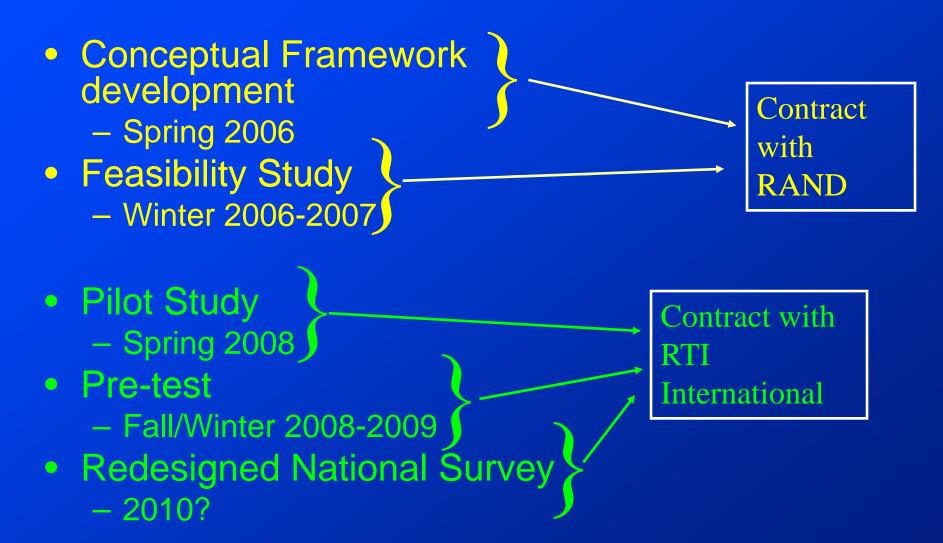
- National Hospital Ambulatory Medical Care Survey (NHAMCS) parallels NAMCS with data from emergency and outpatient departments
- National Survey of Ambulatory Surgery (NSAS) covers this growing segment of health care.
 Incorporation into NHAMCS:
 - Hospital based ambulatory surgery centers in 2009
 - Free-standing ambulatory surgery centers in 2010

National Hospital Discharge Survey

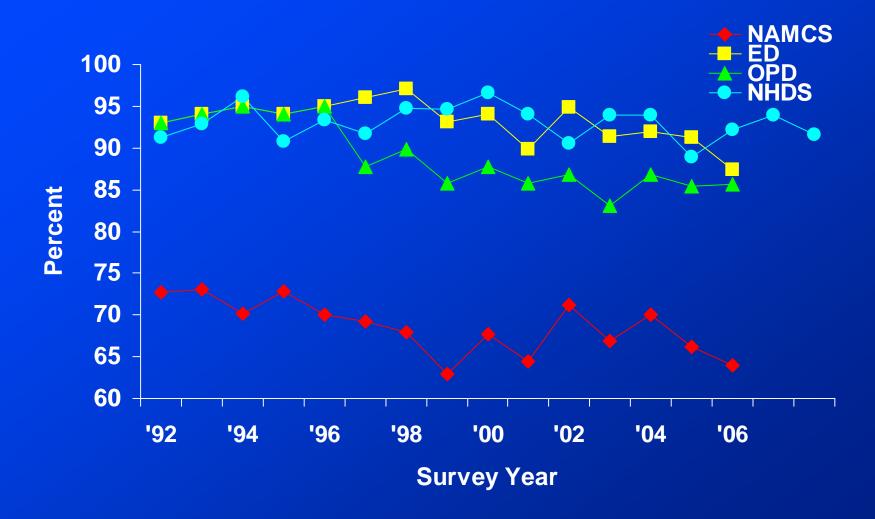
- Inpatient visits to non-federal short-stay hospitals
- Need for an updated survey:
 - Incorporation of clinical data
 - More flexibility of content
 - Identifiers to link to other data sources



Steps in Redesign of NHDS

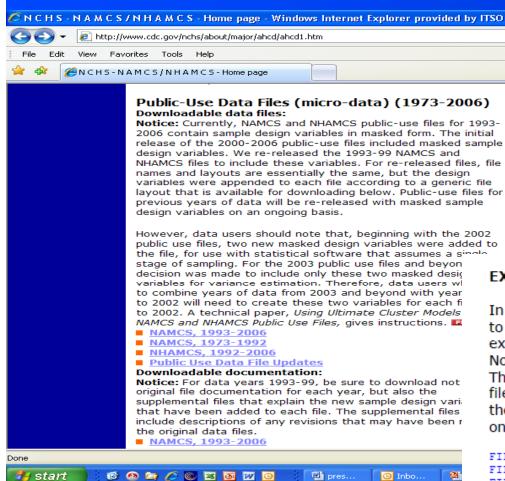


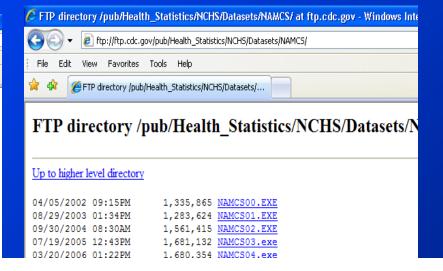
Response Rates for NAMCS, NHAMCS, and NDHS



Note: ED & OPD response rates for the years 1992-96 were calculated as one rate. Response rates are unweighted.

Data Release





EXAMPLE 1

In this example, data from the 2005 ED public use file are being used to determine caseload percentages across emergency departments from the expected sources of payment. (See Figure 7 in Advance Data Report No. 376 for a graphic display of similar results using 2003-04 data.) This example assumes you have downloaded the 2005 ED public use file and uncompressed it, downloaded the SAS input statement from the Ambulatory Health Care Data website, and have placed them bot on your desktop in the folder 'c:\myfiles\nhamcs'.

```
FILENAME ed05 'c:\myfiles\nhamcs\ed2005';

FILENAME ed05inp 'c:\myfiles\nhamcs\ed05inp.txt';

FILENAME ed05for 'c:\myfiles\nhamcs\ed05for.txt';

FILENAME ed05lab 'c:\myfiles\nhamcs\ed05lab.txt';

%INC ed05for;

DATA edtest1;

INFILE ed05 MISSOVER LRECL=999;

%INC ed05inp;

%INC ed05lab;
```



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December 2008

Preliminary Estimates of Electronic Medical Record Use by Office-based Physicians: United States, 2008

by Chun-Ju Hsiao, Ph.D.; Catharine W. Burt, Ed.D.; Elizabeth Rechtsteiner, M.S.; Esther Hing, M.P.H.; David Woodwell, B.A.; Jane E. Sisk, Ph.D., Division of Health Care Statistics

Page Content

Electronic medical record use by office-based physicians Methods References Suggested citation

From April through August 2008, the National Center for Health Statistics (NCHS) conducted a mail survey of office-based physicians to obtain a preliminary estimate of their use of electronic medical records (EMRs). This estimate will supplement information from the core 2008 National Ambulatory Medical Care Survey (NAMCS), an annual nationally representative survey of patient visits to office-based physicians.

Electronic medical record use by office-based physicians

In the 2008 mail survey, 38.4% of the physicians reported using full or partial EMR systems, not including billing records, in their office-based practices. About 20.4% reported using a system described as minimally functional and including the following features: orders for prescriptions. orders for tests, viewing laboratory or imaging results, and clinical notes. Comparable figures for the 2006 NAMCS, the latest available for the full survey, were 29.2% and 12.4%, respectively (1).

EMR systems that conform to certain interoperability standards have been defined as electronic health records (2). Electronic health records in turn have been characterized as basic (patient demographics, problem lists, clinical notes, orders for propertion, and viewing laboratory and

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> > Initiatives -

Aging > Disease Classification Healthy People Injury •

Research and Development Research Data Center

Ambulatory Health Care Data

NAMCS/NHAMCS Home | NAMCS Participants NHAMCS Participants | What's New | Coming Soon NAMCS Description | NHAMCS Description | Data Highlights

Survey Methodology | Publications | Micro-data | Drug Database Confidentiality | FAQ's | Links to Related Sites CDC/NCHS Privacy Policy Notice | Accessibility | Search NCHS

For more information, contact the Ambulatory and Hospital Care Statistics Branch at (301) 458-4600.



The Ambulatory Health Care Data Listserv

Listserv Home | Listserv Help

The Ambulatory Care list (ACLIST) provides a mechanism for dissemination of information regarding National Ambulatory Medical

Care Survey (NAMCS) and National Hospital Ambulatory Modical

Care Survey (NHAMCS) activitie

How to Subscribe to the

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National Hospital Discharge and **Ambulatory Surgery Data**

NCHS Home | NHDS description | NSAS description | News Releases NCHS Health-E-Stats | Data Highlights | Survey Methodology Publications | Micro-data | Links to Related Sites CDC/NCHS Privacy Policy Notice | Accessibility | Search NCHS

For more information, contact the Ambulatory and Hospital Care Statistics Branch at (301) 458-4321.

HDAS-DATA List

The Hospital Discharge and Ambulatory Surgery Data (HDAS-DATA) list provides a forum for discussion and dissemination of data from the National Hospital Discharge Survey (NHDS) and from the National Survey of Ambulatory Surgery (NSAS). Both surveys are administered by the Centers for Disease Control and Prevention's National Center for Health Statistics (CDC/NCHS).



Events =

Surveys and Data Collection Systems

NHANES > NHCS > NHIS . NIS -LSOAs = NSFG!

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April 2008

Mal and Health Statistics

Characteristics of Offic Based Physicians and Practices: United State 2005-2006



National Health Statistics Reports

National Ambulatory Medical Care Survey: 2006 Summary

by Donald K. Cheny, M.S.; Esther Hing, M.P.H.; David A. Vebookeeti, B.A.; and Elicabeth A. Rechtsteiner, M.S. Okiako of Health Care Statistics

Abstract

Observines—This popular describes sentuckney care visits made to phyticise. offices in the United States. Statistics are presented on adveted characteristics of the Abparcian's practice, the patient, and the visit.

Methods—The data prescreted to this report were policited in the 20th National Ambalatory Medical Case Survey (NAMCS), a national protechisty sample viewey of visits to nonfederal office-bases physicistics in the United States. Sample data are weighted to proches; across subortal estimates of physicist wide.

Rendy-Laring 2006, an estimated 507 million routs were trade to physician offices in the United Affilia, so avoid rate of 300 5 visits per 100 persons. In over con-quarter of office visits, electronic medical mounts were unliked by physicists, while at 85.9 percent of visits, chains were submitted electronically. Since 1966, the percentage of such by adults 18 years and over with cheener disputes mercaned area, and during the surse firsts period, briefs (recreased for change hypertrusion (20%), and deposition (27%), strong visits by fitteden, a Pap too was ordered to provided more dropsertly days a learner popularia virus DNA test (36 secure 9.6 percent). Private integrating which where these thought to traditive legical-based Pap train (0.3 potents) compared was visits using conventional or unspecified tons (2.7 percent), whereas visits talking Medicard and other sources of processes were equally likely to provide consentioned or superistical and liquid-based Pap total Machanic decrease was Apartics at 636.7 million office visits, accounting the 70.5 percent of all office visits. In 1966, these same above 1.9 hillion drags therefored, resulting in an ownell 1960.5 drags removes per 100 years. Waste to privately case physicians of electronic baddle concern were more thely to document death extension compared with office-based feactives, whereas dispussed to actioning services, drug mergors, and any exemplation beatingest occurred at approximately the easest properties of visits for Primary care providers in both type of actings.

Keywords undeletary our \cdot physicism office the \cdot distance \cdot injury \cdot cardications - ICD-9-OM primary cur; - classes; chapme

Introduction

The Surious Audiciatory Medical Date Survey (NAMCS), which began in 1973, was inaugurated to garber, analyse, and disorderate information about the health case provided by office-based physicians. Activalitiesy condical care is the projections method of providing health care services or the United States, and occupes in a wide surger of settings.

Ambiliatory medical case in physician editors is the largest and taget walchy used segment of the American bealth care system (2); and in 2004 constant type sametaly 25 percent of builth care spending (2). Physician coffices comprised about four-little of all embulatory moderal care delivered in 1006, and physicism committetion terrorus included everything from primary cless to highly spensioned suggest and stations one. This report describes care delivered in the offices of nonfaderally employed physicians. It includes visits not only to private practices but also to other settings, such as Secretaribly divice—including ungest

This reflect was proported in the Director of Heater Care Statistics. Specify General the Phylodical Services Statistical to the This reflect was prepared in the Linguist number of states, square should be determined from the states of the barrying proceeding. This report was estated by Gold of Johnson, Object-Child Company of Children and the Sparies by Jane T. Le, CDC/CCHISAN/Jane Devices of Creative Shouldest States and the Sparies were produced by States.



U.S. IDEPARTMENT OF HEALTH AND HOWARN SERVICES Centers for Obseque Control and Prevention National Center for Neath Statistics



The Treatment of Smoking by US Physicians During Ambulatory Visits: 1994—2003

PUBLIC HEALTH

Anne N. Thorndike, MD, MPH, Susan Regan, PhD, and Nancy A. Rigotti, MD

Cigarette sm mortality in strong evide ventions at c smoking ces had low rate ing status an Analysis of c National Am (NAMCSs) n tified patien outpatient v ing at 22%

Since the tial efforts h physicians'; ment of toblic Health Sevidence-ba treatment of dated them recommend cians identifiadvise every

Use Of Medical Care For Chronic Conditions



The locus of care for chronic conditions is increasingly in the ambulatory sector.

by Sandra L. Decker, Susan M. Schappert, and Jane E. Sisk

ABSTRACT: We use Statistics to compart hospital discharge rations combined, am fell 9 percent. Disch Ambulatory care vist and depression. Me in hospital emergent ers do. [Health Affai

and disabi aging of the disability are likeling accounts for m

Trends in Opioid Prescribing by Race/Ethnicity for Patients Seeking Care in US Emergency Departments JAMA

Mark J. Pletcher, MD, MPH
Stefan G. Kertesz, MD, MSc
Michael A. Kohn, MD, MPP
Ralph Gonzales, MD, MSPH

NADEQUATELY TREATED PAIN IS A Major public health problem in the United States¹ and a particular problem in emergency departments.² Patients usually present to the emergency department when other medical help is not accessible or when symptoms, often including pain, are most severe. Emergency department visits therefore represent high-risk encounters in which assessment and treatment of pain should receive careful attention.²

Context National quality improvement initiatives implemented in the late 1990s were followed by substantial increases in opioid prescribing in the United States, but it is unknown whether opioid prescribing for treatment of pain in the emergency department has increased and whether differences in opioid prescribing by race/ethnicity have decreased.

Objectives To determine whether opioid prescribing in emergency departments has increased, whether non-Hispanic white patients are more likely to receive an opioid than other racial/ethnic groups, and whether differential prescribing by race/ethnicity has diminished since 2000.

Design and Setting Pain-related visits to US emergency departments were identified using reason-for-visit and physician diagnosis codes from 13 years (1993-2005) of the National Hospital Ambulatory Medical Care Survey.

Main Outcome Measure Prescription of an opioid analgesic.

Results Pain-related visits accounted for 156729 of 374891 (42%) emergency department visits. Opioid prescribing for pain-related visits increased from 23% (95% confidence interval [CI], 21%-24%) in 1993 to 37% (95% CI, 34%-39%) in 2005 (P<.001 for trend), and this trend was more pronounced in 2001-2005 (P=.02). Over all years, white patients with pain were more likely to receive an opioid (31%) than black (23%), Hispanic (24%), or Asian/other patients (28%) (P<.001 for trend), and differences did not diminish over

Institute of Medicine Report







"If we are struggling to deal with tonight's 911 calls in city after city across the United States, how in the world are we supposed to handle an epidemic of pandemic flu or a major terrorist attack or the next natural disaster?"

AHA Statistical Update

Heart Disease and Stroke Statistics—2009 Update

A Report From the American Heart Association Statistics Committee and Stroke Statistics Subcommittee

WRITING GROUP MEMBERS

Kurt Virginia How Lynda

Wayne Rosa Julia for the .

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- Cardiovases
 Subclinical

- 5. Stroke (Cere 6. High Blood
- 9. Other Card
- Amhatha

- 10. Risk Pactor
- 11. Risk Pacion

Donald Lloyd-Jones, MD, ScM, FAHA; Robert Adams, MD, FAHA;

Health Information Technology in the United States:

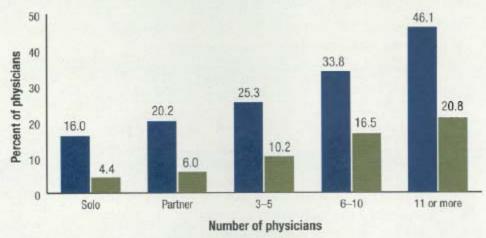
The Information Base for Progress







Figure 2: Percent of physicians using electronic medical records and percent of physicians using electronic medical record system by practice size: United States, 2005





General EMR

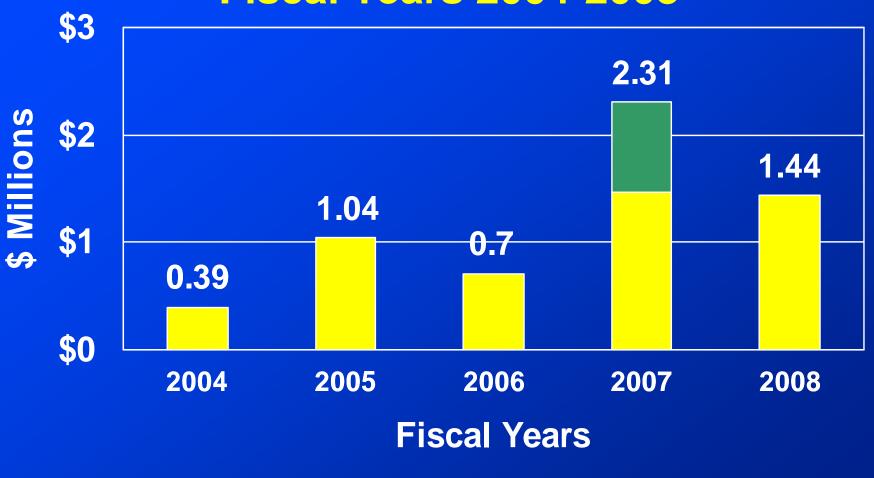


EMR system

NOTES: Both trends are significant (p<.05). EMR is electronic medical record. General EMR is positive response to single question on full or partial EMR use. EMR system is a positive response to four minimal features; computerized orders for prescriptions, computerized orders for tests, test results and physician notes. Includes nonfederal, office-based physicians who see patients in an office setting. Excludes radiologists, anesthesiologists and pathologists

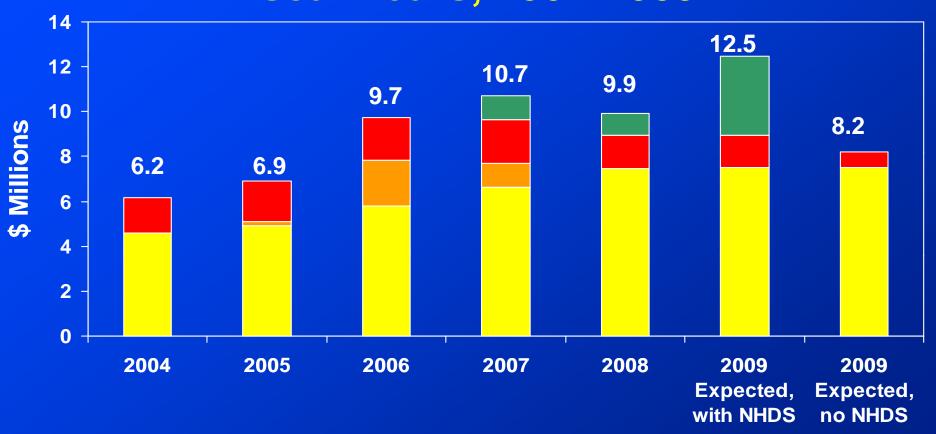
SOURCE: National Ambulatory Medical Care Survey.

Reimbursable (Sponsorship) Funds, Fiscal Years 2004-2008



■ NAMCS + NHAMCS ■ Redesigned NHDS

Expenditures on Ambulatory and Hospital Surveys, Fiscal Years, 2004-2009



Fiscal Years

Budget

Challenges

- NHDS 2009 and redesigned NHDS on hold
- Funding for improvements to ambulatory surveys uncertain

- Continued outreach to potential sponsors
- Strategic planning process underway to set priorities

Staffing

Challenges

- Filling vacancies from promotions, retirements, and resignations on hold
- More clinical expertise needed

- Survey operations priority over analyses
- Recruitment of physician or other clinician
- Investment in training current staff

Timeliness of Data Release

Challenges

- Time to data release lengthening
- Staff vacancies and survey changes

- Release of selected ambulatory providerlevel estimates earlier
- Exploration of electronic data collection and transmission over time

Keeping Surveys Relevant

Challenges

- Continually updating survey design, content, and analyses to address policy and research needs
- Improving coverage of providers and clinical management

- Strategic planning process
- Continued outreach
- More emphasis on provider-level estimates
- Updating surveys as resources permit

Response Rates

Challenges

- NAMCS response rates falling
- Recruiting hospitals for redesigned NHDS

- Non-response follow-up studies
- Further outreach to provider associations
- Possible electronic data sampling and transmission to reduce hospital burden

Data Quality

Challenges

- No recent reabstraction to assess data quality because of funding constraints
- Infrequent training of field representatives

- Improvement in developing new survey items
- Reabstraction of redesigned NHCS sample
- Development of long-term methodological agenda

Electronic Medical Records

Challenges

- Data collection during providers' transition from paper to electronic medical records
- Extracting data of acceptable quality from electronic systems

- Working with selected providers to gain experience with electronic systems
- Exploration of electronic data collection for redesigned NHDS
- Addition of HIT staff person when permitted

Questions and Comments?

