



# **Overview of NCHS' National Health Care Surveys**

**Carol DeFrances, Ph.D., Acting Director,  
Division of Health Care Statistics**

**HITAC Public Health Data Systems Task Force Meeting**

**October 12, 2022**

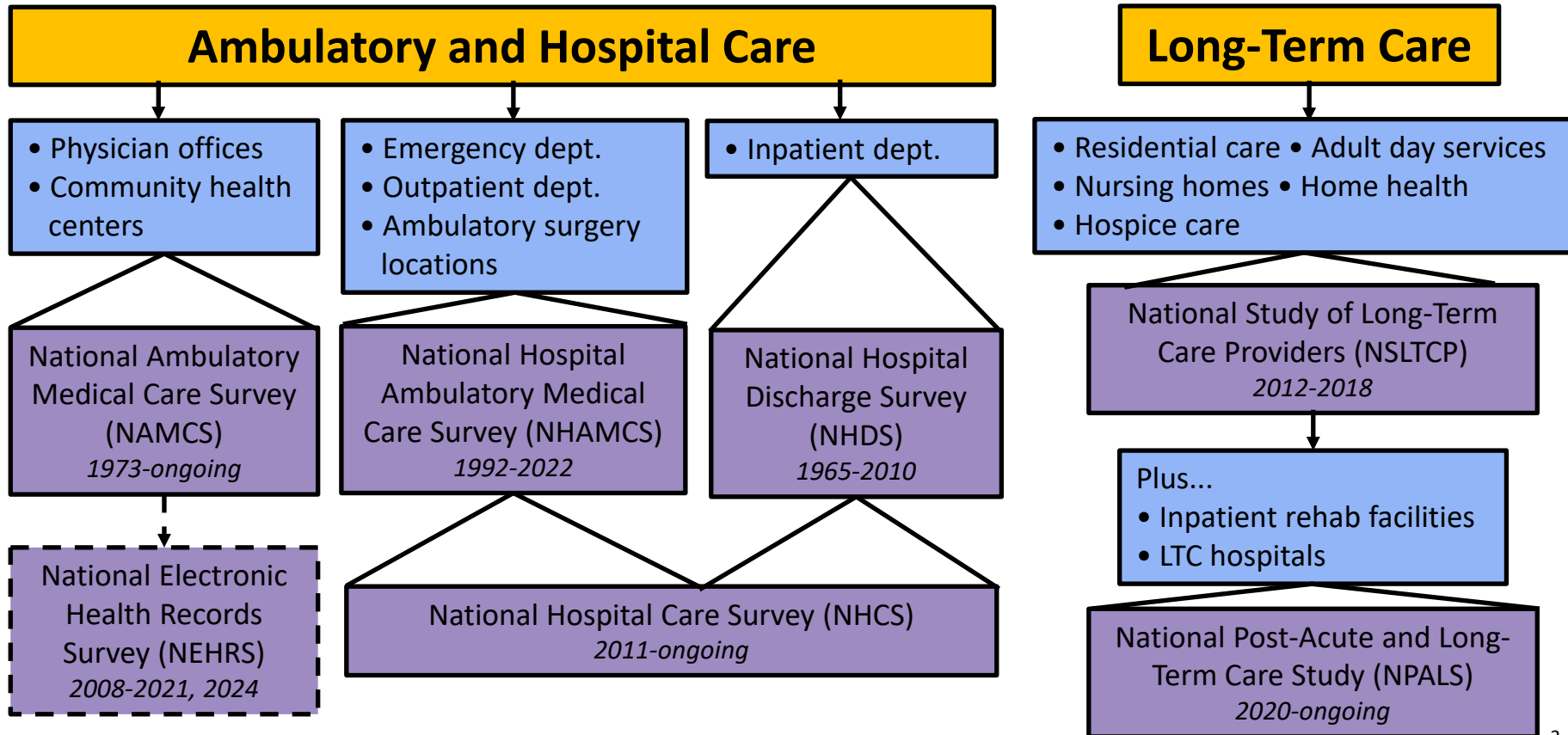


# National Health Care Surveys

- Produce accurate objective, nationally-representative statistics on health care to inform health care policy and serve a variety of research needs.
- Are establishment surveys, not household surveys.
- Provide estimates about the universe of encounters with providers, not the population.
- Historically, patient-level data largely abstracted from medical or administrative data.
- Include health care provider surveys to understand this population's experience providing care.



# National Health Care Surveys Spectrum of Care



# Examples of the Data Elements Included in Surveys

## Facility/practice level

- Type of practice
- Physician specialty
- Num./Type of providers
- Num. of inpatient beds
- Num. of inpatients
- Num. of ED visits
- Num. of births
- COVID-19 experiences
- Use of telemedicine

## Patients

- Demographics
- Insurance status
- Residential zip
- Medical conditions
- Smoking history
- Personal identifiers for linkage (e.g., to the National Death Index)

## Encounters

- Reason for visit
- Diagnosis
- Procedures and services
- Medications and immunizations
- Laboratory and other diagnostic tests
- Types of providers seen

# Data Dissemination

- Preliminary data
- Data Files
  - Public use files and associated documentation available for download on NCHS website
  - Restricted use files available through the NCHS Research Data Center (RDC) Network
- NCHS Reports
- Peer-reviewed journal articles
- Official government reports

## National Health Statistics Reports

Number 175 ■ September 28, 2022

### Experiences Related to the COVID-19 Pandemic Among U.S. Physicians in Office-based Settings, 2020–2021

by Zachary J. Peters, M.P.H., Christopher Cairns, M.P.H., and Danielle Davis, M.P.H.

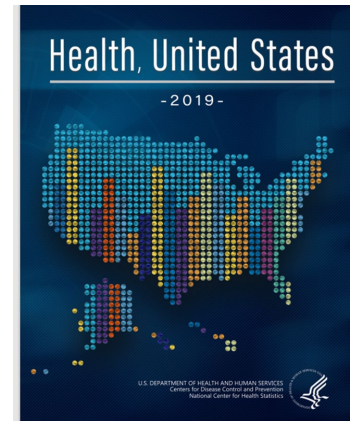
#### ORIGINAL RESEARCH

### Assessment and Diagnosis of Mental Illness in EDs Among Individuals Without a Home: Findings from the National Hospital Ambulatory Care Survey

Hijab Ahmed, MS\*  
Jeff A. Dennis, PhD\*

\*Texas Tech University Health Sciences Center School of Medicine, Department of Emergency Medicine, Lubbock, Texas  
\*Texas Tech University Health Sciences Center, Department of Public Health, Lubbock, Texas

Section Editor: Marc Martel, MD  
Submission history: Submitted January 25, 2021; Revision received June 13, 2021; Accepted July 17, 2021  
Electronically published November 5, 2021  
Full text available through open access at [http://escholarship.org/uc/uciem\\_westjem](http://escholarship.org/uc/uciem_westjem)  
DOI: 10.5811/westjem.2021.7.51862



# Leveraging Healthcare Data & Interoperability *Standards* and Regulations to Enable EHR Data Collection

## ■ Standards

- [HL7 CDA National Health Care Surveys Implementation Guide \(IG\)](#)
  - Releases 1, 1.1, 1.2, 2, and 3
- [HL7 Health Care Surveys \(FHIR\) Content IG](#)
  - Tightly aligned with USCDI
  - Uses the CDC MedMorph Reference Architecture IG

## ■ Regulations

- [CMS Promoting Interoperability \(PI\) Program](#)
  - 100+ EHR products are certified to: § 170.315(f)(7) Transmission to public health agencies — health care surveys

## ■ **ONC's Cures Act Final Rule (2020)**

- [HL7 CDA National Health Care Surveys IG](#) – standard/format named for Health Care Surveys Certification Criteria in the rule.

# Building Infrastructure and Enhancing Data Capacity To Support EHR Collection

- **Migration to the cloud to support the NHCS and NAMCS surveys for collecting and processing EHR data.**
  - Compliance with Confidential Information Protection and Statistical Efficiency Act (CIPSEA).
  - Collect, integrate, harmonize, store, and process EHRs and administrative claims data.
- **FHIR EHR Data Lake Pilot: 2022-2023**
  - Implement FHIR application inside provider's firewall.
  - Build data lake on CDC Enterprise Data Analytics and Visualization (EDAV) platform to process and store EHR data collected.
  - Build data governance structure to allow sharing of EHR data with other CDC programs.

# Our Vision for the Future...

- All National Health Care Surveys public health reporting registry providers and hospitals submit data in FHIR IG format:
  - Continue creating nationally representative data sets
  - Develop surveillance and research data sets
- Build a data lake with hospital, ambulatory, and long-term EHR data for all CDC programs.
- Make timely and reliable estimates for conditions resulting from public health emergencies and rare conditions.
- Continue methodological work:
  - Explore other linkages (e.g., Medicaid and Veterans Affairs)
  - Continue NLP and algorithm development for opioid and other drug encounters, social determinants of health, and other medical conditions
  - Explore using Privacy Preserving Record Linkage (PPRL)
  - Consider developing synthetic data for public and restricted use files



For more information, contact CDC  
1-800-CDC-INFO (232-4636)  
TTY: 1-888-232-6348 [www.cdc.gov](http://www.cdc.gov)

