



Overview of NCHS' National Health Care Surveys

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HITAC Public Health Data Systems Task Force Meeting

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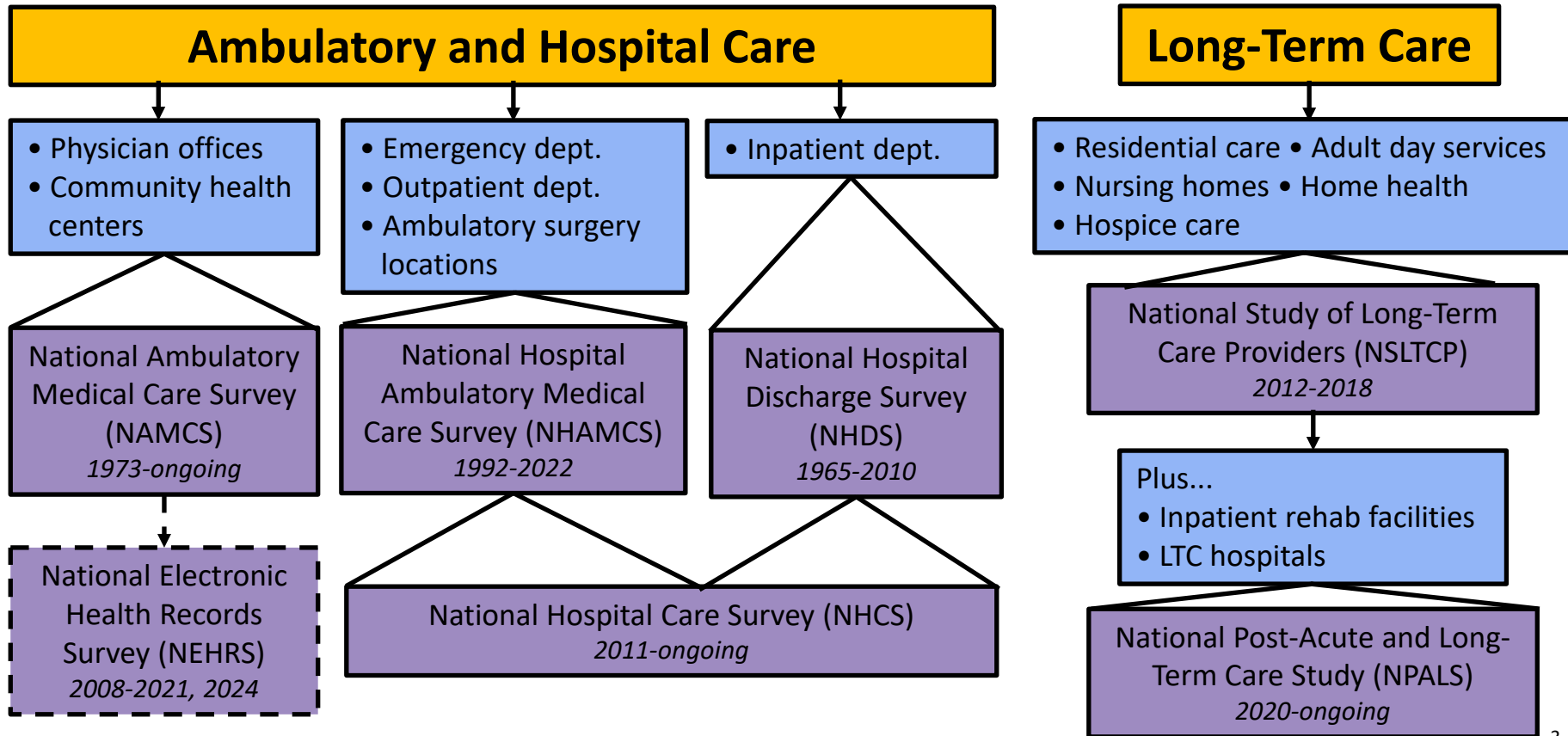


National Health Care Surveys

- 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

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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

