

Introduction to SPARCS

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Bureau of Health Informatics
Office of Quality and Patient Safety
New York State Department of Health
Albany, New York 12237

What is SPARCS?

- Statewide Planning and Research Cooperative System (SPARCS)
 - Cooperation between the health care industry and government
- Been in existence over 30 years: established through statute in 1979
- Calendar Year Based Discharge/Visit Dataset
- Claim level detail on patient characteristics, diagnoses and treatments, services, and charges for hospital discharges, ambulatory surgery, emergency department, and hospital based outpatient service visits (or EODC) in New York State

SPARCS Data Collection

- **Inpatient Services**

- Article 28

- **Outpatient Visits**

- Emergency Department
- Ambulatory Surgery
 - Free-Standing Diagnostic & Treatment Center (D&TC)
 - Hospital Based
- Hospital Based Outpatient
 - EODC = Expanded Outpatient Data Collection

How is SPARCS Data Submitted?

- Health care facilities submit their SPARCS data in an electronic, computer-readable format through NYSDOH's secure electronic network: the **Health Commerce System**
- All SPARCS data must be supported by documentation in the patient's medical and billing records

SPARCS Submission Process



**Article 28
Health
Facilities**

electronic →



**Department of Health
Health Commerce System (HCS)
To
MVS Mainframe System**

- Edits applied

Who Submits to SPARCS?

- Facilities licensed under Article 28 of the Public Health Law
- Freestanding ambulatory surgery centers (D&TC's)
- The enabling legislation and regulations for SPARCS are located under Section 2816 of the Public Health Law (PHL), Section 400.18 of Title 10 (Health) of the Official Compilation of Codes, Rules, and Regulations of the State of New York (NYCRR)
 - State Finance Law, Article 6, 97-x (hospital fees)

SPARCS File Types

- **Identifying/Deniable Data Requests**: Contain data elements that if disclosed without any restrictions on use or re-disclosure would constitute an unwarranted invasion of personal privacy
 - External applicants for Identifying Data must be approved by the **Data Governance Committee(DGC)**
- **Limited**: Contains some indirect patient identifiers, such as the month and year of date fields and some geographic identifiers of the patient
- **De-Identified**: Basic record level detail, all PHI removed ('FOIL File')

Many Uses of SPARCS Data

- Financial, Rate Setting (e.g., APR-DRG SIWs)
- Developing and Evaluating Policy
- Epidemiology
- Health Planning/Resource Allocation
- Quality of Care Assessment
- Research
- Surveillance
- Utilization Review
- Geo-coding
- Linkages with other data sets, registries, etc.
- AHRQ Healthcare Cost and Utilization Project (HCUP)
- Potentially Preventable Hospitalizations (PQI/PDI)
- Potentially Preventable Readmissions (PPRs)
- Potentially Preventable Complications (PPCs)
- Patient Safety Indicators (PSI)
- Inpatient Quality Indicators (IQIs)
- Etc.

Approved External Requests

- A listing of Approved SPARCS Data Requests may be found on the DOH Public Website at the following direct link:

http://www.health.ny.gov/statistics/sparcs/dgc/appr_data_req.htm

SPARCS Data: Available Years

Data Set	Available Years
Inpatient	1982 to Present
Ambulatory Surgery	1983 to Present
Emergency Room	2005 to Present
Outpatient Services	2011 to Present

Data Completeness

- Files are refreshed on a monthly basis
- The calendar year of discharge data is considered complete in September of the following year
 - CY 2013 discharges were considered complete in September 2014
- Audit and Completeness Reports are posted monthly on the DOH public website

SPARCS Compliance

- Health care facilities must submit at least 95% of data for all inpatient discharges and outpatient visits within 60 days from the end of the month of a patient's discharge or visit
- Health care facilities must submit 100% of data for all inpatient discharges and outpatient visits within 180 days from the end of the month of a patient's discharge or visit

http://www.health.ny.gov/statistics/sparcs/reports/compliance/pfi_facilities.htm

Expanded Race and Ethnicity *Timeline*

- The SPARCS system was able to accept reporting of the expanded data standards as of **July 1, 2013**
- Facilities should be fully transitioned to the expanded version for discharges as of **January 1, 2014**

Expanded Race and Ethnicity

The Standards

- Additional categories among Hispanic, Asian and Native Hawaiian or Pacific Islander populations
- Allow the reporting of up to ten selections of race and/or ethnicity

Ethnicity Data Standards

Are you Hispanic, Latino/a, or Spanish origin?
(One or more categories may be selected)

Ethnicity Standards <i>Are you Hispanic, Latino/a, or Spanish origin? (One or more categories may be selected)</i>			
Current Data Standard		Expanded Data Standard	
X12 Value	Ethnicity	X12 Value	Ethnicity
E1	Spanish/Hispanic Origin		
		E1.02	Mexican, Mexican American, Chicano/a
		E1.06	Puerto Rican
		E1.07	Cuban
		E1.**	Another Hispanic, Latino/a, or Spanish Origin
		E2	Not of Hispanic, Latino/a, or Spanish origin
E9	Unknown	E9	Unknown

Race Data Standards

What is your race? (One or more categories may be selected)

Race Standards			
<i>What is your race? (One or more categories may be selected)</i>			
Current Data Standard		Expanded Data Standard	
X12 Value	Race	X12 Value	Race
R1	American Indian or Alaska Native	R1	American Indian or Alaska Native
R2	Asian		
		R2.01	Asian Indian
		R2.06	Chinese
		R2.08	Filipino
		R2.11	Japanese
		R2.12	Korean
		R2.19	Vietnamese
		R2.**	Other Asian
R3	Black or African American	R3	Black or African American
R4	Native Hawaiian or Pacific Islander		
		R4.01.001	Native Hawaiian
		R4.02.001	Guamanian or Chamorro
		R4.01.002	Samoaan
		R4.** ***	Other Pacific Islander
R5	White	R5	White
R9	Other Race	R9	Other Race

Expanded Race and Ethnicity

Other Requirements

- Race and ethnicity will remain mandatory for inpatient, emergency department and ambulatory surgery reporting
- They will remain optional for the Expanded Outpatient Data Collection (EODC)

SPARCS Data Fees

- External organizations requesting identifying SPARCS data are charged a reasonable fee for use. The fee is waived in the following circumstances:
 - Use by a Article 28 health care facility that submitted to the SPARCS program
 - Use by a Article 28 health care facility for the purpose of rate determinations or rate appeals and for health care-related research
 - Use by a Federal, New York State, county or local agency for health care-related purposes

Readily Available SPARCS Data

- SPARCS data may be queried, and downloaded from an HCS application
 - Annual Report Generator
- Aggregated SPARCS data is also available on health.data.ny.gov

<https://health.data.ny.gov/>

Annual Report Generator

- HCS Application

- Open HCS => Applications => S => SPARCS Data Queries => Annual Report Generator

The screenshot shows a Windows Internet Explorer browser window displaying the HCS Portal. The address bar shows the URL: https://commerce.health.state.ny.us/hcsportal/hcs_home.portal?_nfpb=true&_windowLabel=hcs_all_apr. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The toolbar shows various icons for navigation and actions. The page content includes the HCS logo (NYSDOH Health Commerce System) and a welcome message for Mary Beth Conroy. A search bar is present with a 'Search' button and a link to 'Advanced Search'. On the left, there is a 'My Applications' section with a list of links: Acronyms & Abbreviations, CART, Emergency Contacts, File Move for WLS11 apps, Medicaid Encounter Data System, MLTC SAAM Reports, MLTC SAAM Upload, Move development to test, Move test to production, Provider Network Data, and Provider Search/Directory Tool. The main content area features the SPARCS logo (Statewide Planning and Research Cooperative System, ESTABLISHED IN 1979) and a navigation bar with links: Home, Documents, Applications, My Account, Help, Contact Us, and Logout. Below the SPARCS logo, there is a section titled 'SPARCS Annual Report Generator' with a 'Select Report Type' dropdown menu. The dropdown menu is open, showing three options: Inpatient, Ambulatory Surgery, and Emergency Department. At the bottom of the page, there is a footer with links for 'About Us' and 'Terms of Use', and a version number 'Version: 3.3'. The status bar at the very bottom shows 'Done' and 'Local intranet'.

HCS Portal - Windows Internet Explorer

https://commerce.health.state.ny.us/hcsportal/hcs_home.portal?_nfpb=true&_windowLabel=hcs_all_apr

File Edit View Favorites Tools Help

★ Favorites Web Slice Gallery Customize Links Free Hotmail RealPlayer Windows Windows Marketplace Windows Media

HCS Portal

NYSDOH
HCS
Health Commerce System

Welcome Mary Beth Conroy

[Advanced Search](#)

My Applications **My Favorites**

Acronyms & Abbreviations

CART

Emergency Contacts

File Move for WLS11 apps

Medicaid Encounter Data System

MLTC SAAM Reports

MLTC SAAM Upload

Move development to test

Move test to production

Provider Network Data

Provider Search/Directory Tool

Home Documents Applications **My Account** Help Contact Us Logout

Print

SPARCS
ESTABLISHED IN 1979

Statewide Planning and Research Cooperative System

HCS Portal | SPARCS Public Website | Request Upload Access for Additional Facilities

Instructions for Using the SPARCS Annual Report Generator

The SPARCS Data System

SPARCS Data and Report System (Permission Required)

SPARCS Public Web site

SPARCS Annual Report Generator

Select Report Type

- Inpatient
- Ambulatory Surgery
- Emergency Department

CONTACT US AT: sparcs@health.state.ny.us

About Us | Terms of Use Version: 3.3

Done Local intranet 100%

SPARCS Annual Report Generator

- SPARCS inpatient, emergency department and ambulatory surgery data
- Report types include: age group, AP-DRG, APR-DRG, Severity of Illness, Major Diagnostic Category (MDC), discharge disposition, race, ethnicity, payer, gender, AHRQ Clinical Classification System (CCS) diagnosis or procedure categories, county and service category
- Reports may be grouped by facility, county, Health Service Area (HSA) or Commission Catchment Area (CCA)
- Simple listings, as well as comparisons
- Query results can be exported as .csv files

Available SPARCS Data in Tool

- **Inpatient Services (2000 – 2013)**

- Article 28

- **Outpatient Visits**

- Emergency Department (2006 – 2013)
 - Ambulatory Surgery (2000 – 2013)
 - Free-Standing Diagnostic & Treatment Center (D&TC)
 - Hospital Based

Data Set	Available Years	# of Records
Inpatient	2000-2013	36 Million
Ambulatory Surgery	2000-2013	23 Million
Emergency Department	2006-2013	48 Million
Total		107 Million

SPARCS Data Query System

- Multi-Year
(2000 => 2013)
- Comprehensive
 - Inpatient,
 - Emergency Department and
 - Ambulatory Surgery
- Refreshed Monthly
- Simple listings, as well as comparisons
- HIPAA Compliant
- User Friendly
- Fast (runs off aggregated data cubes)
- Exportable Query Output

Query Reports by Year

Report Type

DRG

Disch Disposition

Race or Ethnicity

Payer

Gender

Dx or Px Grouping

County

Service Category

Area

Facility

County

Health Service
Area (HSA)

Commission
Catchment Area
(CCA)

Report On

Discharges

Days

Length of Stay

Charges

Charges /
Discharge

Charges / Day

Comparison

Year

Facility

County

HSA

CCA

SPARCS on the Web

- Department of Health Public Website
 - <http://www.health.ny.gov/statistics/sparcs/>
 - Updating is currently in process
- Health Commerce System
 - Secure website
 - <https://commerce.health.state.ny.us/hpn/cgi-bin/applinks/subsparc/subsparc.cgi>
- Open.NY.Gov / Health Data NY

Health.Data.NY.Gov

- Launch of open.ny.gov and health.data.ny.gov
- Currently have aggregated SPARCS data, beginning in 2010 for Inpatient Discharges
- Five years of de-identified files (CY2009 - CY 2013) at the discharge level (“FOIL File”)

Health.Data.NY.Gov

Hospital Discharges by Facility (SPARCS): Beginning 2010

- Hospital Name
- Type of Service
- Type of Insurance
- Patient Gender
- Discharged Dead or Alive
- Patient Age Group
- Discharge Year
- Number of Discharges
- Average Length of Stay
- Hospital Volume Ranking 2010
- Hospital Volume Ranking 2011

Hospital Discharges by Patient County of Residence (SPARCS): Beginning 2010

- Patient County of Residence
- Patient Gender
- Patient Age
- Discharge Year
- Number of Discharges
- Average Length of Stay
- County Volume Ranking 2010
- County Volume Ranking 2011

Contact Information

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SPARCS.requests@health.ny.gov (Data Access Inquiries and Requests)