

Table: Available Research Data Sources—Quick Look

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Data Source	Description	DUA Needed ?	Access Link	Variable List	Cost	Important Limitations	Potential Use
Medicare Summary Files	Provider-level summary data (by NPI) of types of procedures offered, charges, and characteristics of treated patients	N	Medicare Provider Utilization and Payment Data	Medicare Fee-For-Service Provider Utilization & Payment Data Physician and Other Supplier Public Use File: A Methodological Overview	None	No patient-level detail	Looking at geographic distribution of procedure types and costs – includes provider credentials
Medicare Summary Files	Summary of all Part B costs by procedure code – includes modifiers	N	Physician Supplier Procedure Summary (PSPS)	PSPSRecordLayoutAugust2010	None	No patient-level detail	Get detailed national utilization summaries for procedure types
Part B National and Carrier Summary Data	Summarizes Part B claims by allowed services and costs by National/Carrier level, HCPCS, and prominent modifiers		National Carrier		None	No patient-level detail	Get detailed national or state level utilization summaries for procedure types
Medicare Claims	Limited Data Sets (LDS) – Similar to RIF but stripped of identifying characteristics as required by HIPPA	Y, but no privacy board review	Access procedures for LDS	Data Dictionaries for LDS Standard Analytic Files	\$		
All Payer Claims Dataset (APCDO)	A series of state-level efforts to compile medical claims from all payers using consistent standards	Y	State Data Access	See documentation for each state	\$	Data elements are state specific	Depending on state and anesthesia data incorporation, may be able to do anesthesia statewide analysis
HCUP Hospital Discharge Data	20% Sample of all-payer hospital billing records	Y	National Inpatient Data Sample (20% Sample)	Availability of Data Elements in the 1988-2013 National Inpatient Sample	\$	No procedure modifiers to indicate type of anesthesia provider	
HCUP Hospital Discharge Data	State by state databases of hospital discharge records from community hospitals	Y	State Inpatient Databases (100%)	SID Database Documentation	\$		
Physician Compare	Demographic information, practice locations, and quality program participation for providers eligible for participation in Medicare.	N	Physician Compare National Downloadable File		None	Only Medicare Part B providers	Provider availability by geography

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Health Resources and Services Administration (HRSA)	County-level aggregated data on health care workforce, medical utilization, and population demographics	N	AHRF: Area Health Resources File	Documentation	None	No patient, provider, or procedure detail. All summarized by county	Assessment of healthcare resources and socioeconomic conditions across multiple levels of geography
National Practitioner Data Bank	Record of malpractice awards and other measures taken against licensed healthcare practitioners by professional societies, DEA, or Department of HHS	Y	Public Use File	File specifications	None		
NPPES NPI Registry	Searchable directory of all National Provider Identifiers, NPIs identify individuals or organizations	N	Downloadable files Searchable Database	Description	None		Malpractice claims and adverse events associated with
American Hospital Association	Census of all U.S. hospital detailing characteristics on organization, utilization, expense, staffing, etc.	N	AHA Annual Survey	File Layout	\$	Minimal information regarding anesthesia employment and staffing models	
Bureau of Labor Statistics	Data available on workforce trends including wages and employment. Many fields also available in AHRF.		General information		None	Anesthesia wages only represent employees. Independent and practice owners not included.	Workforce analysis
Dartmouth Atlas of Healthcare	Resources for analyzing geographic disparities in healthcare utilization. There are tools for visualizing trends and downloading data on many healthcare topics.		Website		None		
Kaiser Family Foundation	Kaiser produces many aggregated data tables relevant for research and policy analysis	N	Website		None		

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CMS Doctors and Clinicians Archived Data Snapshots	Monthly data on providers who billed Medicare, unique at the clinician/enrollment record/group/address level beginning in 2018	N	CMS doctors and clinicians archived data snapshots	Data Dictionary	None	No patient-level detail	Looking at geographic distribution of anesthesia providers
CMS Medicare Fee-For-Service Public Provider Enrollment Data	Quarterly data on providers who were enrolled in Medicare, unique at the clinician/enrollment/record/group/address level beginning in 2023	Y	CMS Medicare fee-for-service public provider enrollment data	Data Dictionary	None	No patient-level detail	Looking at geographic distribution of anesthesia providers
NBER Historic Medicare Fee-For-Service Public Provider Enrollment Data	Quarterly data on providers who were enrolled in Medicare, unique at the clinician/enrollment/record/group/address level, available from 2016 to 2019	N	NBER historic Medicare fee-for-service public provider enrollment data	Data Dictionary	None	No patient-level detail	Looking at geographic distribution of anesthesia providers
CMS CRNA Office Visit Costs	Returns CRNA office visit costs per zip code for new and established patients	N	CMS CRNA Office Visit Costs		None	No patient, provider, or procedure detail	Assessing cost of care across different areas of the country