Data dictionaries can be found [here](https://www.cms.gov/Research-Statistics-Data-and-Systems/Files-for-Order/LimitedDataSets/StandardAnalyticalFiles) [external link].

**Type of Data**

Administrative billing database

**Years Available**

At OSU: 2012\*-2020
Note: 2013-2020 data contain mortality and enrollment status data whereas 2012 data does not.

**Short Description**

The Centers for Medicare and Medicaid Services (CMS) Standard Analytic Files (SAFs) contain inpatient, outpatient, skilled nursing facility, and Hospice data for millions of publicly insured individuals across the United States.

**Strengths**

* Financial data including the amount billed to CMS and amount CMS paid out
* Completely representative of the CMS population across the U.S
* Geographic information includes beneficiary state and county which can be linked with external data sources
* Physician and provider IDs are provided as NPIs which can be linked with external data sources
	+ In addition, physician and provider volume can be calculated

**Limitations**

* Clinically nuanced data is not available (only data points which can be derived from ICD-9/10 and CPT codes can be utilized)
* Analyses of financial data cannot be translated to the non-CMS insured population

**SDC Members with Expertise**

* Madison Hyer[email] ([72 publications](https://pubmed.ncbi.nlm.nih.gov/?term=%28%28%28%28Madison+Hyer%5BAuthor%5D+AND+%28%28%22Standard+Analytic+Files%22%29+OR+%28%22Medicare%22%29%29%29+NOT+%28HCUP%5BTitle%2FAbstract%5D%29%29+NOT+%28NCDB%5BTitle%2FAbstract%5D%29%29+NOT+%28Health+Care+Cost%5BTitle%2FAbstract%5D+AND+Utilization+Project%5BTitle%2FAbstract%5D%29%29+NOT+%28National+Cancer+Database%5BTitle%2FAbstract%5D%29+NOT+%28MarketScan%5BTitle%2FAbstract%5D%29+NOT+%28ASO%5BTitle%2FAbstract%5D%29)) [external link]
* Guy Brock[email] ([3 publications](https://pubmed.ncbi.nlm.nih.gov/?term=%28%28%28%28Guy+Brock%5BAuthor%5D+AND+%28%28%22Standard+Analytic+Files%22%29+OR+%28%22Medicare%22%29%29%29+NOT+%28HCUP%5BTitle%2FAbstract%5D%29%29+NOT+%28NCDB%5BTitle%2FAbstract%5D%29%29+NOT+%28Health+Care+Cost%5BTitle%2FAbstract%5D+AND+Utilization+Project%5BTitle%2FAbstract%5D%29%29+NOT+%28National+Cancer+Database%5BTitle%2FAbstract%5D%29)) [external link]
* Mohamed Elsaid [email]