

Analysis Data: Cleaned_Data.csv

- Column of interest: spending: represents personal consumption expenditure on different healthcare services in a given year.

Variables:

Category: Outpatient services or healthcare and nursing home spending.

category	
count	410
unique	2
top	Outpatient services
freq	246

dtype: object

Service: Type of healthcare service; physician, dental, paramedical, hospital, and nursing home

service	
count	410
unique	5
top	Physician services
freq	82

dtype: object

Year: between 2004 and 2024.

year	
count	410.000000
mean	2013.756098
std	5.928591
min	2004.000000
25%	2009.000000
50%	2014.000000
75%	2019.000000
max	2024.000000

dtype: float64

Quarter: Fiscal quarter.

quarter	
count	410
unique	4
top	Q1
freq	105

dtype: object

Spending: Personal consumption expenditure in billions of dollars seasonally adjusted at annual rates.

spending	
count	410.000000
mean	404.734390
std	319.670743
min	81.000000
25%	158.525000
50%	297.300000
75%	569.525000
max	1475.000000

dtype: float64

Describe spending by category and service:

Outpatient services: Consumption expenditures on outpatient services (which includes physician services, dental services, and paramedical services) by quarter in billions of dollars seasonally adjusted at annual rates over the years 2004-2024.

spending	
count	246.000000
mean	311.379268
std	178.965495
min	81.000000
25%	134.975000
50%	297.300000
75%	435.525000
max	785.600000

Physician services: Consumption expenditures on physician services by quarter in billions of dollars seasonally adjusted at annual rates over the years 2004-2024.

spending	
count	82.000000
mean	491.737805
std	124.758162
min	306.600000
25%	393.700000
50%	456.200000
75%	578.925000
max	785.600000

Dental services: Consumption expenditures on dental services by quarter in billions of dollars seasonally adjusted at annual rates over the years 2004-2024.

spending	
count	82.000000
mean	119.041463
std	25.873500
min	81.000000
25%	101.850000
50%	110.050000
75%	134.625000
max	183.900000

Paramedical services: Consumption expenditures on paramedical services by quarter in billions of dollars seasonally adjusted at annual rates over the years 2004-2024.

spending	
count	82.000000
mean	323.358537
std	100.578939
min	188.000000
25%	245.450000
50%	297.300000
75%	384.150000
max	585.100000

Hospital and nursing home services: Consumption expenditures on hospital and nursing home services by quarter in billions of dollars seasonally adjusted at annual rates over the years 2004-2024.

spending	
count	164.000000
mean	544.767073
std	418.796143
min	108.000000
25%	167.250000
50%	381.550000
75%	877.150000
max	1475.000000

Hospitals: Consumption expenditures on hospital services by quarter in billions of dollars seasonally adjusted at annual rates over the years 2004-2024.

spending	
count	82.000000
mean	921.521951
std	254.044442
min	518.400000
25%	720.425000
50%	880.000000
75%	1097.400000
max	1475.000000

Nursing homes: Consumption expenditures on hospital services by quarter in billions of dollars seasonally adjusted at annual rates over the years 2004-2024.

spending	
count	82.000000
mean	168.012195
std	31.841465
min	108.000000
25%	144.525000
50%	166.800000
75%	189.775000
max	244.700000