

# County Health Economics Profile

*Carroll County, MS*

*[extension.msstate.edu/economic-profiles](http://extension.msstate.edu/economic-profiles)*



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**EXTENSION**

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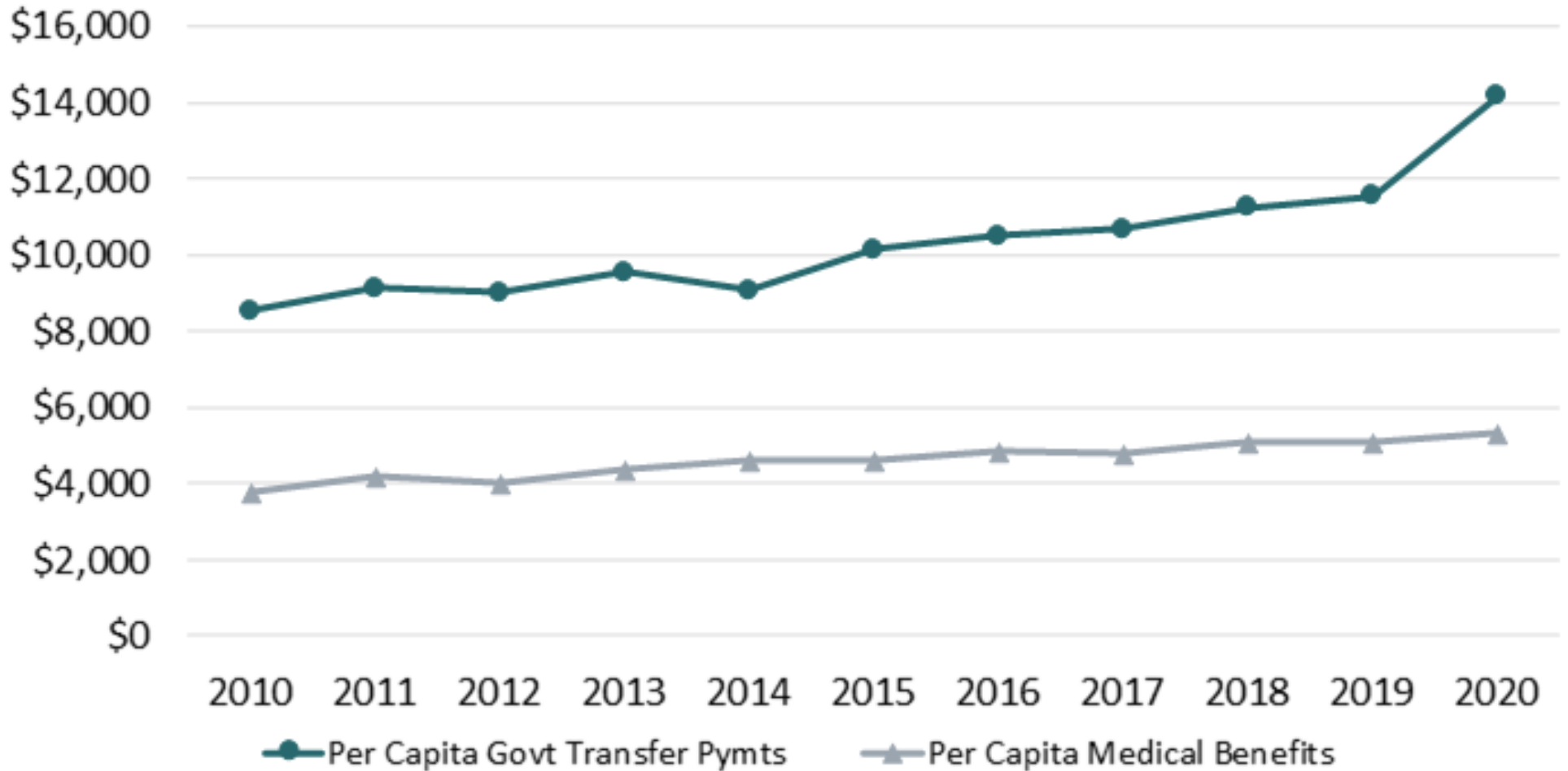
<b>Demographics*</b>	<b>County</b>	<b>Mississippi</b>	<b>United States</b>
Total Population, 2020 (EMSI Population Estimates)	9,911	2,986,526	327,167,434
Percent Change in Total Population, 2016 - 2020 (ACS Population Estimates)	-3.1%	-0.1%	2.8%
Percent Non-white Population, 2020 (2016 - 2020 ACS 5-year estimates)	35.5%	42.0%	29.6%
Percent Population Over 64 years, 2020 (2016 - 2020 ACS 5-year estimates)	23.7%	15.9%	16.0%
Percent of Population in Poverty, 2020 (SAIPE)	15.6%	18.7%	11.9%
Percent of Total Population under 18 in Poverty, 2020 (SAIPE)	22.0%	26.0%	15.7%
Current Median Household Income, 2020 (SAIPE)	\$46,814	\$47,368	\$67,340
Not Covered by Health Insurance, 2020 (2016 - 2020 ACS 5-year estimates)	27.4%	24.8%	41.3%
Private Health Ins Cov Alone, 2020 (2016 - 2020 ACS 5-year estimates)	33.2%	0.1%	1.8%
Public Health Ins Cov Alone, 2020 (2016 - 2020 ACS 5-year estimates)	33.2%	0.1%	1.8%
Other Health Insurance Coverage, 2020 (2016 - 2020 ACS 5-year estimates)	6.3%	75.0%	55.0%

\*Data source acronyms are explained in the Data Key.

**Health Occupations per 100,000  
Population (2021) — EMSI**

Sector	Occ/100k	State Rank
Physicians/Surgeons (all types)	31	74
Reg Nurses/Spec Nurses/Phys Assts	143	80
Lic Practical/Vocational Nurses	112	75
Technologists/Technicians (all types)	163	81
Nursing/Psy/Home Health Aides	743	68
Other Practitioners	92	43
All Other	71	76

## Per Capita Govt Transfer Payments and Medical Benefits Carroll County



**Economic Contribution of the Healthcare Sector  
2021 — EMSI/IMPLAN**

<b>Sector</b>	<b>Direct Impact</b>	<b>Multiplier</b>	<b>Total Impact</b>
Output (Sales)	\$8,680,154	1.34	\$11,674,729
Labor Income	\$8,548,356	1.04	\$8,863,256
Employment	139	1.18	164

**Fiscal Revenue Contribution Estimates of the Healthcare Sector  
2021 — EMSI/IMPLAN**

<b>Revenue Source</b>	<b>State/Local Tax</b>	<b>Federal Tax</b>
Employee Compensation	\$433	\$681,459
Proprietor Income	\$0	\$167,246
TOPI	-\$98,332	\$44,276
Households	\$182,418	\$365,042
Corporations	\$13,277	\$18,587

**Economic Contribution of the Healthcare Sector  
2021 — EMSI/IMPLAN**

<b>Sector*</b>	<b>Sector Description</b>	<b>Jobs</b>	<b>Earnings</b>	<b>Value Added</b>	<b>Output</b>
**	Hospitals	0	\$0	\$0	\$0
486	Outpatient Care Centers	0	\$0	\$0	\$0
483-5	Offices of providers		\$0	\$0	\$0
487	Medical/Diagnostic Labs	0	\$0	\$0	\$0
491	Nursing/Residential Care Facilities	31	\$1,367,655	\$2,362,375	\$2,504,070
488	Home Health Care Services	37	\$1,212,635	\$2,068,305	\$1,694,669

**Top Health Employment Sectors  
2021 — EMSI**

<b>NAICS Code</b>	<b>Sector</b>	<b>2019 Jobs</b>	<b>Annual Earn/Job</b>
6216	Home Health Care Services	35	\$31,786
6231	Nurs Care Fac (Skilled Nursing Fac)	30	\$43,481
6213	Offices of Other Health Prac	25	\$48,594
6219	Other Amb Health Care Svcs	24	\$27,257
6215	Medical and Diagnostic Labs	10	\$23,018
6212	Offices of Dentists	6	\$28,086
6233	Cont Care Ret Comm/Asst Eld Liv	1	\$43,706
6232	Res Int/Dev Dis/Ment Hlth/Sub Ab	1	\$32,572

\*\*Includes privately-owned, state-owned, and local government-owned hospitals.

**Top Health Occupation Sectors  
2021— EMSI**

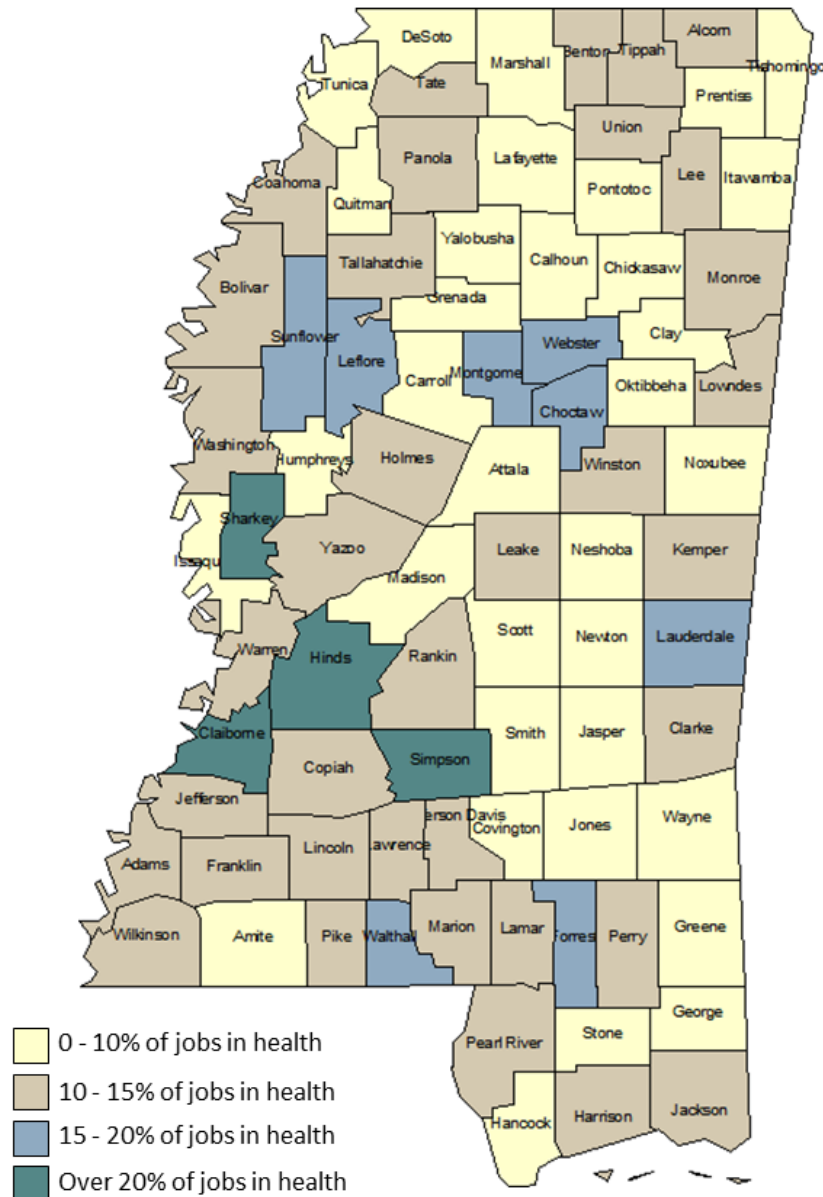
<b>SOC Code</b>	<b>Sector</b>	<b>2019 Jobs</b>	<b>Avg Hrly Earnings</b>
	Total Jobs	142	\$23.45
31-1120	Home Hlth/Care Aides	53	\$15.01
31-1130	Nur Assts/Ord/Psy Aides	19	\$13.63
29-1140	Registered Nurses	13	\$28.63
29-2060	Lic Prac/Voc Nurses	11	\$20.18
29-1120	Therapists	10	\$42.93
31-9090	Misc Health Supp Occ	10	\$13.48
29-1290	Misc Diag/Trt Prac	5	\$38.84



# Percent of Jobs in Health Care and Social Assistance (2021)

Job sectors in the map include:

- Offices of Physicians
- Offices of Dentists
- Offices of Other Health Practitioners
- Outpatient Care Centers
- Medical and Diagnostic Laboratories
- Home Health Care Services
- Other Ambulatory Health Care Services
- General Medical and Surgical Hospitals
- Psychiatric and Substance Abuse Hospitals
- Specialty Hospitals
- Skilled Nursing Care Facilities
- Residential Care Facilities
- Individual and Family Services
- Vocational Rehabilitation Services
- Child Day Care Services



## MISSISSIPPI COUNTY HEALTH ECONOMICS PROFILES

### DATA KEY

#### Data Acronyms and Abbreviations

**ACS** — American Community Survey (5-year estimates are used for all ACS variables). Data can be accessed through <https://data.census.gov>.

**SAIPE** — Small Area Income and Poverty Estimates. <https://www.census.gov/programs-surveys/saipe.html>

**BEA** — Bureau of Economic Analysis. <https://www.bea.gov/data/by-place-county-metro-local>

**Emsi** — Proprietary data software company. <https://economicmodeling.com>

**IMPLAN** — Proprietary software company specializing in input-output analysis software. <https://implan.com>

**TOPI** — Taxes on Production and Imports

#### Total Population, 2020

Data were obtained from the Emsi Population Estimates.

<https://economicmodeling.com>

#### Percent Change in Total Population, 2016 to 2020

Data were obtained from the Emsi Population Estimates and the U.S. Census Bureau Population Estimates.

<https://economicmodeling.com>, <https://data.census.gov>

#### Percent of the Population that is Non-white, 2020

Data were obtained from the 2016 to 2020 American Community Survey five-year estimates (Table B02001). This table depicts the population at the county, state, and national levels by race.

<https://data.census.gov>

#### Percent of the Population that is Older than 64 years, 2020

Data were obtained from the 2016 to 2020 American Community Survey five-year estimates (Table B01001). This table depicts the population at the county, state, and national levels by age and sex.

<https://data.census.gov>

#### Percent of the Population in Poverty, 2020 Estimate

Data were obtained from the Model-based Small Area Income & Poverty Estimates (SAIPE) for school districts, counties, and states.

<https://www.census.gov/data/datasets/2020/demo/saipe/2020-state-and-county.html>

#### Percent of the Total Population under 18 in Poverty, 2020

Data were obtained from the Model-based Small Area Income & Poverty Estimates (SAIPE) for school districts, counties, and states.

<https://www.census.gov/data/datasets/2020/demo/saipe/2020-state-and-county.html>

**Current Median Household Income, 2020**

Data were obtained from the Model-based Small Area Income & Poverty Estimates (SAIPE) for school districts, counties, and states.

<https://www.census.gov/data/datasets/2020/demo/saipe/2020-state-and-county.html>

**Not Covered by Health Insurance, 2020**

Data were obtained from the 2016 to 2020 American Community Survey five-year estimates (Table S2701). Estimates are of the percentage of persons in the county who were not covered by any type of health insurance.

<https://data.census.gov>

**Private Health Insurance Coverage Alone, 2020**

Data were obtained from the 2016 to 2020 American Community Survey five-year estimates (Table S2701). Estimates are of the percentage of persons in the county who were solely covered by some form of private health insurance.

<https://data.census.gov>

**Public Health Insurance Coverage Alone, 2020**

Data were obtained from the 2016 to 2020 American Community Survey five-year estimates (Table S2701). Estimates are of the percentage of persons in the county who were solely covered by some form of public health insurance.

<https://data.census.gov>

**Other Health Insurance Coverage, 2020**

Data were obtained from the 2016 to 2020 American Community Survey five-year estimates (Table S2701). Estimates are of the percentage of persons in the county who were covered by some combination of private and public health insurance.

<https://data.census.gov>

**Economic Contribution of the Healthcare Sector, 2021 (1st table)**

These estimates were calculated using input-output methodologies by the IMPLAN software from labor and earnings data provided by the Economic Modeling Specialists, Inc. proprietary database. They show the total output (all sales), labor income and employment estimates and multipliers for the direct and total economic impact of six economic sectors (Offices of physicians, dentists, and other health practitioners; Home health care services; Medical and diagnostic labs and outpatient and other ambulatory services; Nursing and residential care facilities; Private hospitals; and Public hospitals that used the spending patterns of private hospitals as a proxy).

<https://www.implan.com>

<https://economicmodeling.com>

### **Fiscal Revenue Estimates of the Healthcare Sector, 2021**

Estimates of fiscal revenue (taxes) generated by the healthcare sector for both the state/local and federal economies classified by revenue source. These estimates were calculated using input-output methodologies by the IMPLAN software from labor and earnings data provided by the Economic Modeling Specialists, Inc. proprietary database.

<https://www.implan.com>

<https://economicmodeling.com>

### **Health Occupations per 100,000 Population, 2021**

These estimates were obtained from Emsi. In an effort to ease comparisons of the numbers of occupations for a particular health-related sector in a county or region, the numbers of occupations existing within a county were indexed to a 100,000 population rate. Aggregated sectors are composed of the following:

#### *Physicians/Surgeons (all types)*

- Sector 29-1060—Physicians and Surgeons

#### *Registered Nurses/Specialized Nurses/Physician Assistants*

- Sector 29-1070—Physician Assistants
- Sector 29-1140—Registered Nurses
- Sector 29-1150—Nurse Anesthetists
- Sector 29-1160—Nurse Midwives
- Sector 29-1170—Nurse Practitioners

#### *Licensed Practical and Vocational Nurses*

- Sector 29-2060—Licensed Practical and Licensed Vocational Nurses

#### *Technologists/Technicians (all types)*

- Sector 29-2010—Clinical Laboratory Technologists and Technicians
- Sector 29-2030—Diagnostic Related Technologists and Technicians
- Sector 29-2040—Emergency Medical Technicians and Paramedics
- Sector 29-2050—Health Practitioner Support Technologists and Technicians
- Sector 29-2070—Medical Records and Health Information Technicians
- Sector 29-2090—Miscellaneous Health Technologists and Technicians
- Sector 29-9010—Occupational Health and Safety Specialists and Technicians

## **Health Occupations per 100,000 Population, 2021**

These estimates were obtained from Emsi. In an effort to ease comparisons of the numbers of occupations for a particular health-related sector in a county or region, the numbers of occupations existing within a county were indexed to a 100,000 population rate. Aggregated sectors are composed of the following:

### *Nursing/Psychiatric/Home Health Aides*

- Sector 31-1010—Nursing, Psychiatric, and Home Health Aides

### *Other Practitioners*

- Sector 29-1010—Chiropractors
- Sector 29-1020—Dentists
- Sector 29-1040—Optometrists
- Sector 29-1050—Pharmacists
- Sector 29-1080—Podiatrists

### *Other*

- Sector 29-1030—Dietitians and Nutritionists
- Sector 29-1120—Therapists
- Sector 29-1190—Miscellaneous Health Diagnosing and Treating Practitioners
- Sector 29-9090—Miscellaneous Health Practitioners and Technical Workers
- Sector 31-2010—Occupational Therapy Assistants and Aides
- Sector 31-2020—Physical Therapy Assistants and Aides

<http://economicmodeling.com>

### **Per Capita Transfer Payments (Total Govt Payments and Govt Medical Benefits)**

These data were obtained from the Bureau of Economic Analysis Local Area Personal Income and Employment Table CA35. They show the values of total government-paid total and medical transfer payments.

<https://www.bea.gov/data/by-place-county-metro-local>

### **Economic Impact of Healthcare Sector, 2021 (2nd table)**

These are estimates of the total number of jobs and labor income resulting from the presence of the healthcare sector in the county. They were estimated using the IMPLAN software and are a result of the information gleaned from the Economic Impact of Healthcare Sector (1st table) above.

<https://www.implan.com>

<https://economicmodeling.com>

### **Top Health and Social Assistance Occupation Sectors, 2021**

Estimates were obtained from the Economic Modeling Specialists, Inc., proprietary database. The largest Standard Occupational Code (SOC) occupation sectors for 2020 were captured for the county. This database also supplied estimates for the average annual earnings per occupation.

<https://economicmodeling.com>

### **Percentage of Jobs in the Healthcare Sector, 2021**

These estimates were obtained from the Economic Modeling Specialists, Inc., proprietary database. The map shows the percentage of total jobs within the county that are directly involved with healthcare. Sectors used as direct healthcare sectors are: Offices of physicians, dentists, and other health practitioners; Home health care services; Medical and diagnostic labs and outpatient and other ambulatory services; Nursing and residential care facilities; Private hospitals; and Public hospitals.

<https://economicmodeling.com>

### **Top Health Employment Sectors, 2021**

These estimates were obtained from the Economic Modeling Specialists, Inc., proprietary database. The largest employment NAICS code sectors for 2020 were captured for the county. This database also supplied estimates for the annual earnings per job.

<https://economicmodeling.com>

### **Top Health Occupation Sectors, 2021**

These estimates were obtained from the Economic Modeling Specialists, Inc., proprietary database. The largest employment SOC (occupation) code sectors for 2020 were captured for the county. This database also supplied estimates for the average hourly earnings per job.

<https://economicmodeling.com>

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