

# Addendum to APPENDIX B. Supplemental Data Tables for HCUP Statistical Brief #310: State Variation in Inpatient Stays Involving Sepsis, 2021, Updated with 2022 Data

HCUP Statistical Brief #310 Addendum to Update with 2022 Data | June 2025

## State Variation in Inpatient Stays Involving Sepsis, 2022

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This is an addendum to HCUP Statistical Brief #310, State Variation in Inpatient Stays Involving Sepsis, 2021. For all tables, 2022 data replace 2021 data. Please refer to the main Statistical Brief for information related to methodology (i.e., definitions and calculations), suggested citation, and contact information.

The state-specific population rates of sepsis-related inpatient stays overall and by the presence of COVID-19 diagnosis are listed in Table B.1. The percentages of inpatient stays related to sepsis by patient population are presented in Table B.2. The percentages of inpatient stays related to sepsis involving COVID-19 among nonmaternal adult patient populations are listed in Table B.3. The percentages of total hospital costs attributable to sepsis stays by presence of COVID-19 diagnosis are presented in Table B.4. Lastly, the in-hospital mortality rates for sepsis stays among nonmaternal adults by presence of COVID-19 diagnosis are presented in Table B.5.

**Table B.1 State-Specific Population Rates of Sepsis-Related Inpatient Stays Overall and by Presence of COVID-19 Diagnosis, 2022**

State	Sepsis-related inpatient stays per 100,000 population	Sepsis-related inpatient stays involving COVID-19 per 100,000 population	Sepsis-related inpatient stays not involving COVID-19 per 100,000 population
Alaska	549.8	62.9	486.9
Arizona	741.9	119.4	622.4
Arkansas	725.0	80.7	644.3
California	747.3	103.5	643.8
Colorado	610.5	72.6	537.9
Connecticut	731.8	114.5	617.3
Delaware	594.6	88.4	506.3
District of Columbia	720.8	109.1	611.8
Florida	867.2	128.4	738.8
Georgia	698.9	98.9	600.0
Hawaii	623.6	77.0	546.6
Illinois	728.9	101.9	627.0
Indiana	672.8	82.1	590.7
Iowa	568.7	66.2	502.6
Kansas	753.5	100.5	652.9
Kentucky	946.2	132.7	813.5
Louisiana	686.8	76.6	610.1
Maine	603.8	72.2	531.6
Maryland	687.0	95.0	592.0
Massachusetts	577.0	76.8	500.2
Michigan	721.8	95.5	626.3
Minnesota	587.6	68.9	518.6

State	Sepsis-related inpatient stays per 100,000 population	Sepsis-related inpatient stays involving COVID-19 per 100,000 population	Sepsis-related inpatient stays not involving COVID-19 per 100,000 population
Mississippi	864.3	105.1	759.2
Missouri	758.0	100.6	657.4
Montana	544.8	60.4	484.4
Nebraska	640.2	82.5	557.7
New Hampshire	544.7	72.2	472.5
New Jersey	636.4	102.1	534.3
New Mexico	839.3	127.5	711.8
New York	644.6	110.6	534.0
North Carolina	648.5	92.3	556.2
North Dakota	548.5	69.9	478.6
Ohio	770.3	110.8	659.4
Oklahoma	864.6	111.7	752.9
Oregon	579.3	73.2	506.2
Pennsylvania	742.1	109.0	633.2
Rhode Island	450.1	49.7	400.4
South Carolina	718.5	93.2	625.3
South Dakota	560.1	57.3	502.8
Tennessee	885.2	110.7	774.5
Texas	696.1	94.6	601.4
Utah	464.4	59.3	405.1
Vermont	482.3	49.7	432.6
Virginia	773.7	113.4	660.4
Washington	562.5	72.2	490.4
West Virginia	1103.0	151.5	951.5
Wisconsin	596.9	70.2	526.7
Wyoming	413.1	41.6	371.5

**Source:** Agency for Healthcare Research and Quality (AHRQ), Healthcare Cost and Utilization Project (HCUP), State Inpatient Database (SID), 2022, 47 states and the District of Columbia.

**Table B.2 Percentage of Inpatient Stays Related to Sepsis by Patient Population, 2022**

State	Overall	Adult (65+ years), nonmaternal	Adult (18-64 years), nonmaternal	Maternal (regardless of age)	Pediatric (28 days-17 years)	Neonatal (0-27 days)
Alaska	7.0	10.8	9.1	0.4	3.0	1.2
Arizona	8.8	12.8	10.7	0.2	3.1	1.0
Arkansas	6.1	9.1	6.2	0.1	2.4	0.8
California	8.5	14.3	9.0	0.2	3.1	1.0
Colorado	7.8	12.6	9.8	0.2	1.8	0.8
Connecticut	7.3	11.9	6.8	0.2	1.2	0.4
Delaware	5.4	8.2	5.9	0.1	1.6	1.7
District of Columbia	6.4	11.7	7.3	0.2	2.4	1.7
Florida	7.3	10.5	6.9	0.2	3.6	1.4
Georgia	7.5	11.8	8.6	0.2	1.5	0.9
Hawaii	8.5	13.4	9.4	0.2	1.7	1.1
Illinois	7.2	11.2	7.2	0.2	2.8	0.8
Indiana	6.8	10.1	7.7	0.1	2.5	0.7
Iowa	6.1	9.1	7.1	0.1	3.6	1.4
Kansas	7.6	11.2	8.8	0.2	3.5	1.4
Kentucky	8.7	12.4	9.8	0.2	2.2	0.8
Louisiana	6.9	11.0	7.7	0.1	1.5	0.8
Maine	7.0	9.9	7.6	0.1	2.7	0.5
Maryland	8.0	12.9	8.4	0.2	2.6	1.3
Massachusetts	5.7	8.7	5.4	0.1	1.7	0.4
Michigan	6.9	10.1	7.2	0.2	3.2	1.0
Minnesota	6.5	10.3	7.2	0.2	3.1	1.2
Mississippi	8.1	11.8	9.1	0.2	2.3	1.1
Missouri	6.4	9.8	6.7	0.1	2.1	1.1
Montana	6.9	9.9	8.2	0.1	2.4	0.5
Nebraska	7.1	11.2	8.5	0.1	1.6	0.6
New Hampshire	6.4	9.0	6.8	0.1	1.6	0.5
New Jersey	6.6	10.9	6.2	0.2	1.9	0.5
New Mexico	9.5	14.0	11.9	0.2	2.2	0.8
New York	6.7	11.3	5.9	0.1	3.2	1.0
North Carolina	6.8	10.6	7.3	0.1	2.1	0.8
North Dakota	6.7	10.7	8.1	0.1	2.0	0.6
Ohio	6.8	10.0	7.3	0.2	2.0	0.7
Oklahoma	8.1	11.7	9.2	0.2	3.4	0.8
Oregon	7.4	11.2	8.8	0.1	2.1	0.4
Pennsylvania	7.0	10.0	7.1	0.2	2.3	0.6
Rhode Island	4.6	7.5	4.4	0.2	1.4	0.2
South Carolina	7.1	10.4	7.7	0.1	2.3	0.8
South Dakota	5.4	8.3	6.4	0.1	1.6	1.5
Tennessee	8.6	12.3	10.1	0.2	3.5	1.1
Texas	7.5	12.4	8.7	0.2	4.5	0.9

State	Overall	Adult (65+ years), nonmaternal	Adult (18-64 years), nonmaternal	Maternal (regardless of age)	Pediatric (28 days-17 years)	Neonatal (0-27 days)
Utah	6.3	12.3	8.3	0.1	2.1	1.1
Vermont	5.5	8.2	5.3	***	1.2	0.4
Virginia	8.4	13.2	8.9	0.2	2.1	0.9
Washington	7.7	11.9	9.8	0.2	2.9	0.4
West Virginia	8.6	11.1	9.5	0.2	3.6	1.2
Wisconsin	7.0	10.7	7.7	0.1	3.3	0.5
Wyoming	4.9	7.3	5.7	***	2.6	0.2

**Note:** \*\*\* denotes suppressed data. Data are suppressed for states with less than 11 sepsis-related inpatient stays.

**Source:** Agency for Healthcare Research and Quality (AHRQ), Healthcare Cost and Utilization Project (HCUP), State Inpatient Database (SID), 2022, 47 states and the District of Columbia.

**Table B.3 Percentage of Inpatient Stays Related to Sepsis involving COVID-19 by Nonmaternal Adult Patient Populations, 2022**

State	Overall	Adult (65+ years), nonmaternal	Adult (18-64 years), nonmaternal
Alaska	11.8	14.0	10.4
Arizona	16.1	17.4	15.1
Arkansas	11.0	11.6	10.5
California	13.8	14.8	13.1
Colorado	11.8	12.5	11.6
Connecticut	15.7	16.1	15.4
Delaware	15.1	15.8	15.8
District of Columbia	13.6	15.0	13.2
Florida	14.8	16.2	13.4
Georgia	14.2	15.0	13.6
Hawaii	12.4	12.9	12.1
Illinois	14.0	14.7	13.4
Indiana	12.1	12.5	12.1
Iowa	11.6	11.4	13.1
Kansas	13.3	13.6	13.9
Kentucky	14.1	15.2	13.1
Louisiana	11.1	11.9	10.2
Maine	12.0	12.4	11.9
Maryland	13.9	14.5	13.8
Massachusetts	13.3	13.6	13.0
Michigan	13.2	13.6	13.3
Minnesota	11.7	11.7	12.7
Mississippi	12.3	13.2	11.8
Missouri	13.3	13.7	13.3
Montana	11.6	12.2	11.0
Nebraska	13.0	13.1	13.4
New Hampshire	13.1	12.8	14.0
New Jersey	16.1	16.9	15.2
New Mexico	15.4	16.0	15.3
New York	16.8	18.2	15.2
North Carolina	14.3	14.8	14.0
North Dakota	12.6	12.3	13.7
Ohio	14.4	15.0	13.8
Oklahoma	13.0	13.7	12.5
Oregon	12.6	12.5	13.0
Pennsylvania	14.6	14.9	14.8
Rhode Island	11.1	11.2	11.1
South Carolina	13.0	13.6	12.4
South Dakota	10.1	10.0	11.1
Tennessee	12.4	13.5	11.6
Texas	13.6	14.6	13.0

State	Overall	Adult (65+ years), nonmaternal	Adult (18-64 years), nonmaternal
Utah	12.7	13.6	12.7
Vermont	10.2	11.0	8.6
Virginia	14.6	15.2	14.3
Washington	12.9	13.3	12.6
West Virginia	13.4	14.3	12.8
Wisconsin	11.7	11.8	11.8
Wyoming	9.8	9.9	10.0

**Source:** Agency for Healthcare Research and Quality (AHRQ), Healthcare Cost and Utilization Project (HCUP), State Inpatient Database (SID), 2022, 47 states and the District of Columbia.

**Table B.4 Percentage of Total Hospital Costs Attributable to Sepsis Stays by Presence of COVID-19 Diagnosis, 2022**

State	Percentage of aggregate hospital costs attributable to sepsis stays, overall	Percentage of aggregate hospital costs for sepsis stays attributable to sepsis stays involving COVID-19
Alaska	9.7	13.1
Arizona	11.3	21.5
Arkansas	7.4	16.0
California	11.3	18.0
Colorado	8.9	17.1
Connecticut	9.4	20.9
Delaware	7.6	19.3
District of Columbia	8.5	18.6
Florida	9.0	18.3
Georgia	9.8	18.0
Hawaii	11.8	16.4
Illinois	9.0	18.8
Indiana	8.5	16.0
Iowa	7.2	15.9
Kansas	9.5	18.6
Kentucky	10.8	18.9
Louisiana	8.0	13.9
Maine	8.4	15.8
Maryland	10.3	19.4
Massachusetts	6.9	17.7
Michigan	8.1	16.8
Minnesota	7.2	16.9
Mississippi	11.1	16.2
Missouri	8.3	17.4
Montana	8.0	13.8
Nebraska	8.4	19.8
New Hampshire	7.7	17.3
New Jersey	9.3	19.9
New Mexico	12.8	20.3
New York	9.3	21.2
North Carolina	8.0	17.6
North Dakota	9.0	17.6
Ohio	8.0	18.3
Oklahoma	10.4	17.3
Oregon	8.6	18.2
Pennsylvania	8.3	19.2
Rhode Island	5.5	12.0
South Carolina	8.5	15.9
South Dakota	8.3	16.0
Tennessee	9.7	16.4

State	Percentage of aggregate hospital costs attributable to sepsis stays, overall	Percentage of aggregate hospital costs for sepsis stays attributable to sepsis stays involving COVID-19
Texas	9.6	18.0
Utah	7.7	16.8
Vermont	6.1	11.2
Virginia	9.9	18.4
Washington	8.5	16.1
West Virginia	10.4	15.9
Wisconsin	7.9	15.5
Wyoming	6.1	13.0

**Source:** Agency for Healthcare Research and Quality (AHRQ), Healthcare Cost and Utilization Project (HCUP), State Inpatient Database (SID), 2022, 47 states and the District of Columbia.



**Table B.5 In-Hospital Mortality Rate for Sepsis Stays Among Nonmaternal Adults by Presence of COVID-19 Diagnosis, 2022**

State	In-Hospital Mortality Rate for Sepsis Stays involving COVID-19		In-Hospital Mortality Rate for Sepsis Stays not involving COVID-19	
	Adult (65+ years), nonmaternal	Adult (18-64 years), nonmaternal	Adult (65+ years), nonmaternal	Adult (18-64 years), nonmaternal
Alaska	27.1	12.1	17.9	10.7
Arizona	20.8	16.8	13.1	9.7
Arkansas	25.0	19.0	14.4	11.0
California	23.7	17.5	16.0	11.4
Colorado	19.1	12.5	10.9	7.5
Connecticut	21.7	18.6	14.8	9.5
Delaware	23.4	23.8	17.6	11.4
District of Columbia	26.4	19.1	16.6	11.8
Florida	17.4	12.4	12.1	8.9
Georgia	22.1	15.6	15.3	10.3
Hawaii	22.0	15.6	15.4	10.7
Illinois	21.6	17.7	14.9	11.3
Indiana	23.9	17.7	14.2	10.4
Iowa	20.9	14.0	12.6	10.3
Kansas	19.6	16.3	11.3	8.5
Kentucky	24.7	18.3	16.8	12.1
Louisiana	23.8	19.2	14.7	11.8
Maine	18.6	11.9	13.2	9.7
Maryland	23.6	16.8	15.8	10.1
Massachusetts	25.4	16.7	17.9	12.1
Michigan	25.1	17.6	15.7	11.0
Minnesota	20.6	17.3	14.2	9.0
Mississippi	26.6	21.0	16.2	13.0
Missouri	24.4	20.4	16.4	11.5
Montana	19.9	15.1	14.1	9.8
Nebraska	21.8	16.2	13.7	8.4
New Hampshire	19.0	16.0	14.4	12.4
New Jersey	25.5	19.2	17.1	12.2
New Mexico	22.7	20.9	14.8	11.2
New York	26.2	17.8	19.7	12.5
North Carolina	24.8	20.3	16.0	11.9
North Dakota	26.0	16.3	14.2	12.1
Ohio	22.6	19.9	13.5	10.5
Oklahoma	25.6	20.7	15.0	12.5
Oregon	23.5	14.5	14.2	10.0
Pennsylvania	21.2	17.7	14.9	10.5
Rhode Island	21.8	13.9	13.5	10.1
South Carolina	22.2	18.9	14.6	11.2

State	In-Hospital Mortality Rate for Sepsis Stays involving COVID-19		In-Hospital Mortality Rate for Sepsis Stays not involving COVID-19	
	Adult (65+ years), nonmaternal	Adult (18-64 years), nonmaternal	Adult (65+ years), nonmaternal	Adult (18-64 years), nonmaternal
South Dakota	26.9	25.0	13.8	12.0
Tennessee	25.3	18.5	15.6	11.6
Texas	20.8	16.6	12.3	9.6
Utah	14.8	12.0	8.6	6.6
Vermont	14.9	***	15.4	8.5
Virginia	21.3	17.4	14.4	9.5
Washington	23.0	13.1	15.8	10.3
West Virginia	23.7	18.4	16.5	13.3
Wisconsin	19.4	13.9	11.4	8.1
Wyoming	24.1	28.3	14.2	6.4

**Note:** \*\*\* denotes suppressed data. Data are suppressed for states with less than 11 sepsis-related inpatient stays.

**Source:** Agency for Healthcare Research and Quality (AHRQ), Healthcare Cost and Utilization Project (HCUP), State Inpatient Database (SID), 2022, 47 states and the District of Columbia.