

APPENDIX B. Supplemental Data Tables

Statistical Brief #310 | Agency for Healthcare Research and Quality, Healthcare Cost and Utilization Project

State Variation in Inpatient Stays Involving Sepsis, 2021

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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, 2021

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	527.4	116.2	411.2
Arizona	842.4	233.7	608.7
Arkansas	716.5	114.7	601.8
California	762.4	157.9	604.6
Colorado	628.3	126.5	501.8
Connecticut	736.3	123.9	612.5
Delaware	548.1	94.5	453.7
District of Columbia	759.3	116.0	643.4
Florida	963.3	249.6	713.7
Georgia	767.3	193.7	573.6
Hawaii	573.5	55.2	518.3
Illinois	724.2	122.1	602.1
Indiana	677.8	117.0	560.7
Iowa	583.4	89.8	493.6
Kansas	758.6	149.6	608.9
Kentucky	950.7	186.3	764.4
Louisiana	723.2	117.8	605.4
Maine	587.6	74.7	512.9
Maryland	688.1	117.8	570.3
Massachusetts	571.9	79.5	492.4
Michigan	764.9	148.0	616.8
Minnesota	584.4	83.7	500.7
Mississippi	881.5	161.5	720.0
Missouri	771.9	139.3	632.6
Montana	600.8	110.6	490.2
Nebraska	619.6	120.8	498.8

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
New Hampshire	530.0	78.9	451.1
New Jersey	647.7	117.3	530.4
New Mexico	752.4	170.1	582.3
New York	655.2	138.4	516.8
North Carolina	661.3	137.4	523.9
North Dakota	487.1	76.3	410.9
Ohio	801.0	162.6	638.4
Oklahoma	857.7	174.3	683.4
Oregon	568.2	87.2	481.0
Pennsylvania	742.2	149.2	593.0
Rhode Island	447.8	59.1	388.7
South Carolina	750.6	171.6	579.0
South Dakota	571.0	77.7	493.3
Tennessee	915.0	193.2	721.8
Texas	777.9	204.3	573.6
Utah	482.5	107.8	374.8
Vermont	450.5	30.5	419.9
Virginia	772.9	155.2	617.8
Washington	545.7	89.9	455.8
West Virginia	1089.4	205.7	883.6
Wisconsin	597.0	82.3	514.8
Wyoming	433.5	81.5	351.9

Source: Agency for Healthcare Research and Quality (AHRQ), Healthcare Cost and Utilization Project (HCUP), State Inpatient Database (SID), 2021, 47 states and the District of Columbia.

Table B.2 Percentage of Inpatient Stays Related to Sepsis by Patient Population, 2021

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	6.7	10.3	8.9	0.2	2.2	1.1
Arizona	9.1	12.6	11.4	0.3	3.6	1.0
Arkansas	6.0	8.8	6.4	0.2	2.7	0.9
California	8.8	14.5	9.9	0.2	3.1	1.1
Colorado	8.1	12.4	10.4	0.2	1.9	1.1
Connecticut	7.2	11.4	7.0	0.2	1.6	0.4
Delaware	4.9	7.3	5.4	0.2	1.9	1.2
District of Columbia	6.5	11.4	7.4	0.2	2.7	2.3
Florida	8.0	10.9	8.2	0.3	3.5	1.6
Georgia	8.0	12.2	9.6	0.2	1.7	1.2
Hawaii	7.9	12.3	9.1	0.1	1.3	1.4
Illinois	7.0	10.7	7.3	0.2	2.9	0.9
Indiana	6.7	9.8	7.6	0.1	2.3	0.6
Iowa	6.0	9.1	6.8	0.1	2.9	1.4

State	Overall	Adult (65+ years), nonmaternal	Adult (18-64 years), nonmaternal	Maternal (regardless of age)	Pediatric (28 days-17 years)	Neonatal (0-27 days)
Kansas	7.5	10.6	9.2	0.2	2.8	1.2
Kentucky	8.5	12.0	9.7	0.2	2.0	0.7
Louisiana	6.8	10.6	7.9	0.2	1.7	1.2
Maine	6.6	9.3	7.1	0.1	2.4	0.6
Maryland	7.8	12.3	8.4	0.2	2.9	1.2
Massachusetts	5.5	8.5	5.3	0.1	1.6	0.3
Michigan	7.1	10.1	7.6	0.2	3.2	1.1
Minnesota	6.3	9.9	6.8	0.2	3.0	1.4
Mississippi	8.0	11.4	9.2	0.2	2.6	1.1
Missouri	6.4	9.6	6.9	0.2	1.6	1.2
Montana	7.0	10.0	8.7	0.1	1.7	0.5
Nebraska	7.0	11.1	8.5	0.2	1.5	0.4
New Hampshire	5.9	8.4	6.3	0.1	2.2	0.3
New Jersey	6.6	10.7	6.4	0.1	2.0	0.6
New Mexico	8.3	11.6	10.6	0.2	2.6	0.8
New York	6.8	11.1	6.2	0.2	2.9	1.1
North Carolina	6.6	10.2	7.3	0.2	1.8	0.9
North Dakota	6.2	9.6	7.6	0.1	2.3	0.8
Ohio	6.8	9.7	7.6	0.2	1.9	0.6
Oklahoma	8.2	11.7	9.6	0.2	3.9	1.1
Oregon	7.3	10.8	8.8	0.2	1.9	0.4
Pennsylvania	6.6	9.4	6.8	0.2	2.3	0.7
Rhode Island	4.2	6.7	4.1	0.1	1.1	0.2
South Carolina	7.2	10.2	8.1	0.2	1.9	0.8
South Dakota	5.3	7.9	6.1	0.2	1.2	1.9
Tennessee	8.6	12.0	10.4	0.3	3.2	1.2
Texas	8.3	12.9	10.3	0.3	4.3	1.1
Utah	6.3	12.1	8.6	0.2	2.2	1.1
Vermont	5.0	7.2	5.3	***	1.1	0.4
Virginia	8.3	12.7	9.3	0.2	2.2	1.0
Washington	7.4	11.4	9.6	0.2	3.0	0.5
West Virginia	8.4	10.6	9.5	0.3	4.0	1.2
Wisconsin	6.7	10.1	7.4	0.2	3.2	0.5
Wyoming	4.9	7.7	5.7	***	***	0.3

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), 2021, 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, 2021

State	Overall	Adult (65+ years), nonmaternal	Adult (18-64 years), nonmaternal
Alaska	22.6	20.6	25.8
Arizona	27.7	23.9	33.2
Arkansas	15.5	13.4	18.8
California	20.7	17.3	26.5
Colorado	20.2	16.7	25.0
Connecticut	17.1	14.3	22.5
Delaware	17.3	16.1	21.2
District of Columbia	13.0	11.8	15.3
Florida	25.9	21.2	34.0
Georgia	25.1	21.3	30.6
Hawaii	9.5	6.7	14.6
Illinois	17.0	14.1	22.2
Indiana	17.2	15.2	20.6
Iowa	15.2	12.7	20.6
Kansas	19.2	16.1	24.2
Kentucky	19.8	18.0	22.5
Louisiana	16.1	13.6	20.3
Maine	12.7	10.6	16.7
Maryland	17.4	15.0	21.8
Massachusetts	13.8	12.7	16.5
Michigan	19.3	16.7	24.3
Minnesota	14.3	12.2	19.1
Mississippi	19.1	16.3	23.4
Missouri	18.2	16.0	22.2
Montana	18.8	17.3	21.3
Nebraska	19.4	16.2	24.7
New Hampshire	14.0	12.0	17.8
New Jersey	18.4	16.0	23.5
New Mexico	23.2	19.7	27.2
New York	19.9	18.4	24.1
North Carolina	20.8	18.3	25.1
North Dakota	15.4	13.5	18.5
Ohio	20.3	18.6	23.3
Oklahoma	20.5	18.0	25.0
Oregon	15.5	11.8	21.1
Pennsylvania	19.9	18.2	23.6
Rhode Island	13.0	12.0	15.1
South Carolina	23.1	20.2	27.5
South Dakota	13.9	12.5	17.4
Tennessee	20.7	17.8	24.9
Texas	26.2	21.1	33.4

State	Overall	Adult (65+ years), nonmaternal	Adult (18-64 years), nonmaternal
Utah	22.4	17.5	29.4
Vermont	6.8	5.7	9.0
Virginia	20.1	17.2	25.2
Washington	16.3	12.5	22.0
West Virginia	18.6	17.8	20.4
Wisconsin	13.4	11.2	17.4
Wyoming	16.4	14.9	19.2

Source: Agency for Healthcare Research and Quality (AHRQ), Healthcare Cost and Utilization Project (HCUP), State Inpatient Database (SID), 2021, 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, 2021

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	9.4	28.0
Arizona	12.8	38.9
Arkansas	7.8	24.2
California	12.4	31.4
Colorado	9.7	31.6
Connecticut	9.3	24.6
Delaware	7.0	23.7
District of Columbia	9.4	16.2
Florida	10.4	34.4
Georgia	10.7	33.3
Hawaii	11.0	15.3
Illinois	9.2	25.1
Indiana	8.2	23.5
Iowa	7.2	21.6
Kansas	9.9	27.6
Kentucky	11.4	28.3
Louisiana	8.3	23.4
Maine	8.4	17.8
Maryland	10.6	26.2
Massachusetts	6.7	19.8
Michigan	8.7	26.2
Minnesota	7.1	22.3
Mississippi	10.8	24.8
Missouri	8.5	26.5
Montana	8.0	25.9
Nebraska	9.1	30.9
New Hampshire	7.1	16.7
New Jersey	9.6	25.5

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
New Mexico	11.9	35.3
New York	9.5	26.3
North Carolina	8.0	27.7
North Dakota	8.2	23.4
Ohio	8.4	26.3
Oklahoma	11.2	29.8
Oregon	8.9	26.4
Pennsylvania	8.4	28.1
Rhode Island	5.1	18.2
South Carolina	9.1	30.0
South Dakota	8.2	23.1
Tennessee	10.4	29.9
Texas	11.2	37.1
Utah	8.5	34.5
Vermont	5.6	7.3
Virginia	10.2	27.0
Washington	8.7	22.5
West Virginia	10.6	23.2
Wisconsin	7.8	20.0
Wyoming	6.5	22.0

Source: Agency for Healthcare Research and Quality (AHRQ), Healthcare Cost and Utilization Project (HCUP), State Inpatient Database (SID), 2021, 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, 2021

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	46.3	23.2	16.2	10.3
Arizona	36.6	22.4	13.7	11.0
Arkansas	34.0	24.2	15.4	12.9
California	39.9	23.3	16.3	12.1
Colorado	28.3	13.4	10.8	8.3
Connecticut	30.0	15.0	14.7	10.7
Delaware	42.1	27.9	16.6	13.1
District of Columbia	37.7	21.5	23.0	16.3
Florida	28.4	17.5	12.7	9.7
Georgia	32.4	18.6	15.4	11.8
Hawaii	41.4	23.0	15.9	10.6
Illinois	29.5	15.6	15.1	11.1
Indiana	32.5	20.0	14.9	10.5

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
Iowa	29.8	15.3	12.4	9.5
Kansas	25.3	17.4	11.9	7.8
Kentucky	36.3	22.7	17.3	12.7
Louisiana	35.1	24.3	16.8	13.1
Maine	25.8	18.7	14.6	12.0
Maryland	31.9	18.0	16.6	10.7
Massachusetts	33.8	18.2	16.7	11.4
Michigan	36.3	20.5	15.9	11.7
Minnesota	30.3	15.3	13.7	9.2
Mississippi	37.3	28.0	17.6	13.2
Missouri	35.0	24.7	17.1	12.3
Montana	31.1	20.0	15.5	11.9
Nebraska	30.1	17.4	14.4	9.9
New Hampshire	30.9	12.5	14.7	11.5
New Jersey	36.7	21.8	17.7	12.6
New Mexico	41.0	25.9	15.5	12.8
New York	37.0	16.8	20.2	12.9
North Carolina	35.5	23.9	16.9	12.5
North Dakota	38.5	23.3	16.3	13.6
Ohio	33.9	21.0	14.0	10.7
Oklahoma	37.5	25.3	16.4	12.5
Oregon	32.3	20.7	14.0	10.5
Pennsylvania	31.6	18.3	14.9	10.8
Rhode Island	33.6	29.9	14.1	10.2
South Carolina	33.9	21.0	15.1	12.1
South Dakota	42.6	28.2	14.1	11.2
Tennessee	37.1	23.7	16.7	12.4
Texas	32.5	20.2	13.5	10.7
Utah	26.2	17.2	9.3	8.0
Vermont	25.9	***	13.2	9.9
Virginia	30.9	16.0	15.0	10.7
Washington	34.0	17.3	16.4	11.8
West Virginia	39.0	26.7	17.4	12.0
Wisconsin	28.9	15.6	11.7	8.3
Wyoming	31.4	19.0	15.2	11.9

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), 2021, 47 states and the District of Columbia.