

Table 101. Discharge rate in nonfederal short-stay hospitals, by sex, age, and selected first-listed diagnosis: United States, selected years 1990 through 2008-2009

(Data are based on a sample of hospital records)

Age and first-listed diagnosis	Discharges								
	Both sexes			Male			Female		
	1990	2000	2008-2009 <sup>1</sup>	1990	2000	2008-2009 <sup>1</sup>	1990	2000	2008-2009 <sup>1</sup>
	Number per 10,000 population								
All ages, age-adjusted <sup>2,3</sup> .....	1,252.4	1,132.8	1,149.8	1,130.0	990.8	1,000.9	1,389.5	1,277.3	1,307.6
All ages, crude <sup>3</sup> .....	1,222.7	1,128.3	1,179.9	1,002.2	910.6	971.9	1,431.7	1,336.6	1,381.2
Under 18 years <sup>3</sup> .....	463.5	402.6	*341.8	463.1	408.6	*350.5	464.1	396.2	*332.5
Dehydration.....	9.5	15.7	10.0	9.4	17.2	*10.6	9.7	14.2	9.3
Acute bronchitis and bronchiolitis.....	17.2	27.8	15.2	19.6	31.4	18.4	14.6	24.1	*11.8
Pneumonia.....	33.3	25.2	21.9	37.0	25.7	*23.8	29.5	24.6	19.8
Asthma.....	27.5	29.6	*18.6	32.7	34.8	*23.0	22.0	24.0	*14.0
Appendicitis.....	12.6	11.9	*11.2	14.6	13.0	*13.9	10.5	10.8	*8.4
Injury.....	49.7	33.6	24.7	62.0	42.0	*29.8	36.8	24.8	19.4
Fracture.....	17.7	13.8	10.2	22.3	18.3	13.5	12.9	9.0	*6.8
Complications of care and adverse effects.....	6.2	*7.3	*5.7	6.5	*7.9	*6.6	5.9	*6.6	*4.6
18-44 years <sup>3</sup> .....	1,026.6	849.4	885.7	579.2	450.0	447.6	1,468.0	1,248.1	1,332.5
HIV/AIDS.....	*1.8	4.3	2.5	*2.8	5.8	3.4	*	2.8	*1.5
Cancer, all.....	16.6	10.5	10.3	11.9	7.3	7.2	21.3	13.7	13.5
Childbirth.....	...	...	...	...	...	...	698.6	645.2	707.4
Uterine fibroids.....	...	...	...	...	...	...	20.2	21.7	17.0
Diabetes.....	9.7	11.5	14.1	11.3	13.0	14.2	8.1	9.9	14.0
Alcohol and drug.....	26.2	29.7	18.5	37.0	39.1	23.9	15.5	*20.2	13.0
Schizophrenia, mood disorders, delusional disorders, nonorganic psychoses.....	35.4	*53.6	49.0	34.1	*53.2	46.8	36.7	*53.9	51.2
Schizophrenia.....	13.4	*14.4	13.4	16.4	*18.6	16.0	10.5	*10.1	10.8
Mood disorders.....	19.4	*35.9	32.8	15.4	*31.0	27.9	23.4	*40.9	37.9
Heart disease.....	21.7	21.8	22.2	30.2	26.6	26.6	13.4	17.0	17.8
Ischemic heart disease.....	11.9	9.9	7.3	17.7	14.2	9.5	6.3	5.6	5.2
Pneumonia.....	12.5	10.9	10.3	12.8	10.0	9.3	12.2	11.9	11.4
Asthma.....	9.8	9.0	7.9	5.1	5.4	4.5	14.4	12.6	11.3
Intervertebral disc disorders.....	20.5	12.5	10.3	25.6	14.5	9.9	15.4	10.4	10.7
Injury.....	86.2	45.8	50.3	119.0	62.3	66.9	53.8	29.4	33.4
Fracture.....	27.8	17.8	20.4	40.2	25.4	30.2	15.5	10.2	10.5
Poisoning and toxic effects.....	11.4	8.5	12.0	10.0	6.7	11.3	12.7	10.3	12.8
Complications of care and adverse effects.....	12.5	12.2	16.2	11.7	11.2	13.2	13.3	13.1	19.3
45-64 years <sup>3</sup> .....	1,354.5	1,114.2	1,209.6	1,402.7	1,127.4	1,224.8	1,309.7	1,101.7	1,195.0
HIV/AIDS.....	*0.6	*3.2	2.8	*1.2	*4.9	3.4	*	*	*2.2
Cancer, all.....	118.3	62.9	66.5	106.3	62.1	66.4	129.5	63.6	66.6
Colorectal cancer.....	12.7	7.9	7.1	14.8	8.9	6.8	10.8	6.9	7.4
Lung/bronchus/tracheal cancer.....	21.8	6.9	8.3	26.8	8.6	8.3	17.2	5.2	8.3

Breast cancer <sup>4</sup> .....	...	...	...	...	...	...	29.0	14.2	10.4
Prostate cancer.....	...	...	...	8.5	9.6	13.8	...	...	...
Uterine fibroids.....	...	...	...	...	...	...	29.3	35.6	24.8
Diabetes.....	29.1	33.1	29.8	29.1	37.4	31.9	29.2	29.0	27.7
Alcohol and drug.....	21.7	23.3	23.5	34.6	33.5	34.6	9.6	13.7	12.8
Schizophrenia, mood disorders, delusional disorders, nonorganic psychoses.....	32.9	42.7	49.7	25.4	*39.6	46.7	39.8	45.6	52.6
Schizophrenia.....	10.1	12.8	16.4	8.4	*14.4	18.2	11.7	11.3	14.8
Mood disorders.....	19.6	*26.9	30.8	14.5	*21.6	26.0	24.4	*32.0	35.3
Heart disease.....	238.7	203.6	153.4	316.8	264.0	199.3	166.1	146.4	109.7
Ischemic heart disease.....	160.3	126.4	74.6	226.1	177.3	104.7	99.2	78.2	46.0
Heart attack.....	50.6	38.8	26.9	74.4	58.7	38.9	28.4	19.9	15.6
Arrhythmias.....	28.5	25.1	25.8	35.5	31.8	33.0	22.1	18.7	18.9
Heart failure.....	26.4	31.4	31.6	30.7	33.5	38.3	22.4	29.3	25.3
Hypertension.....	16.3	19.0	19.8	16.9	17.6	19.9	15.6	20.3	19.8
Stroke.....	35.2	36.7	32.9	40.8	38.3	36.7	30.1	35.2	29.3
Pneumonia.....	33.5	35.3	32.9	34.0	34.2	34.7	33.0	36.4	31.2
Chronic obstructive pulmonary disease.....	15.8	30.8	28.4	17.4	30.8	24.0	14.3	30.8	32.6
Asthma.....	18.6	13.4	16.8	11.8	6.2	10.9	24.9	20.2	22.5
Osteoarthritis.....	18.9	24.0	55.3	16.3	20.8	49.5	21.2	27.0	60.7
Intervertebral disc disorders.....	31.5	21.2	20.7	36.8	22.5	21.2	26.5	20.0	20.1
Injury.....	72.5	47.9	57.4	79.9	51.2	65.1	65.6	44.7	50.0
Fracture.....	32.4	26.2	28.6	33.4	25.3	32.2	31.5	27.0	25.1
Poisoning and toxic effects.....	6.3	6.3	11.8	4.5	5.5	10.8	8.0	7.1	12.9
Internal organ injury.....	7.9	4.5	8.3	10.2	5.9	11.2	5.7	3.2	*5.6
Complications of care and adverse effects.....	32.0	34.5	48.8	35.6	36.3	50.2	28.7	32.7	47.5
65-74 years <sup>3</sup> .....	2,616.3	2,546.0	2,543.3	2,877.6	2,649.1	2,640.6	2,411.2	2,461.0	2,460.1
Septicemia.....	27.2	35.6	66.1	34.9	40.1	70.1	21.2	32.0	62.7
Cancer, all.....	243.1	159.0	151.2	281.4	176.4	175.1	213.0	144.7	130.8
Colorectal cancer.....	27.0	22.8	18.1	30.6	29.9	21.2	24.1	16.9	15.5
Lung/bronchus/tracheal cancer.....	42.9	26.1	27.4	63.9	28.2	30.3	26.4	24.5	24.8
Breast cancer <sup>4</sup> .....	...	...	...	...	...	...	42.3	31.2	18.9
Prostate cancer.....	...	...	...	50.6	37.1	31.6	...	...	...
Diabetes.....	51.8	46.4	49.8	43.6	46.8	47.3	58.3	46.2	52.0
Schizophrenia, mood disorders, delusional disorders, nonorganic psychoses.....	32.7	37.1	30.0	25.3	*34.2	24.3	38.6	39.6	*34.9
Dementia and Alzheimer's disease.....	5.6	*11.2	*7.0	4.9	*16.2	*7.4	*6.1	*7.0	*6.6
Heart disease.....	558.1	604.8	440.6	694.2	706.4	532.6	451.3	521.0	362.0
Ischemic heart disease.....	321.3	307.0	190.5	419.9	396.5	249.3	243.9	233.2	140.3
Heart attack.....	103.3	100.3	68.6	139.8	124.7	85.4	74.6	80.2	54.2
Arrhythmias.....	69.1	102.6	91.5	84.7	108.3	106.7	56.9	97.9	78.5
Heart failure.....	105.2	131.6	103.1	118.0	136.4	117.1	95.1	127.6	91.2
Hypertension.....	21.8	21.5	36.0	16.2	16.5	28.7	26.2	25.5	*42.2
Stroke.....	123.9	127.1	100.8	137.5	131.8	124.1	113.1	123.2	80.8
Pneumonia.....	98.1	121.3	88.0	113.6	127.7	90.9	85.9	116.1	85.5
Chronic obstructive pulmonary disease.....	45.3	102.3	98.6	52.6	102.6	92.1	39.6	102.0	104.2
Gallstones.....	44.2	33.4	27.2	38.2	30.2	29.9	48.9	36.0	24.9
Kidney disease.....	9.9	19.1	52.9	11.0	21.0	59.6	9.0	17.5	47.1
Urinary tract infection.....	30.2	25.5	39.4	21.7	19.7	28.2	36.9	30.3	48.9
Hyperplasia of the prostate.....	...	...	...	143.5	53.6	25.2	...	...	...
Osteoarthritis.....	68.0	101.4	148.4	55.2	103.1	125.8	78.0	100.1	167.8

Injury.....	107.7	101.5	97.7	90.7	83.8	87.5	121.1	116.2	106.4
Fracture.....	67.2	63.3	60.7	45.2	46.8	43.7	84.4	76.9	75.3
Hip fracture.....	26.7	26.4	21.0	15.3	*20.0	16.1	35.7	31.7	25.2
Complications of care and adverse effects.....	69.7	80.0	101.3	85.7	95.7	109.1	57.2	67.1	94.6
75-84 years <sup>3</sup> .....	3,957.0	4,124.4	4,140.2	4,417.3	4,294.1	4,369.0	3,678.9	4,013.5	3,979.9
Septicemia.....	53.9	68.3	136.5	63.8	78.1	156.3	47.9	61.9	122.6
Cancer, all.....	300.3	194.0	189.7	420.8	211.0	221.3	227.6	182.9	167.5
Colorectal cancer.....	49.8	33.0	31.1	54.0	37.5	33.2	47.3	30.1	29.6
Lung/bronchus/tracheal cancer.....	36.5	27.0	34.7	57.2	32.2	43.2	*24.0	23.6	28.7
Breast cancer <sup>4</sup> .....	...	...	...	...	...	...	38.7	30.8	13.6
Prostate cancer.....	...	...	...	99.2	27.4	*15.2	...	...	...
Diabetes.....	44.3	63.4	71.4	44.8	68.1	68.8	44.0	60.3	73.3
Schizophrenia, mood disorders, delusional disorders, nonorganic psychoses.....	38.8	41.4	*	*27.3	*30.6	*	45.7	48.5	*32.2
Dementia and Alzheimer's disease.....	20.0	36.5	41.3	22.8	36.8	47.7	18.3	36.3	36.8
Heart disease.....	866.6	954.8	774.3	1,003.8	1,062.5	885.7	783.7	884.3	696.2
Ischemic heart disease.....	382.4	416.7	268.8	470.5	528.5	337.6	329.1	343.6	220.6
Heart attack.....	155.9	166.9	123.3	220.9	212.8	138.9	116.7	136.9	112.3
Arrhythmias.....	133.4	176.8	181.0	153.3	174.4	189.0	121.4	178.3	175.3
Heart failure.....	261.4	263.1	220.8	286.2	271.1	246.5	246.4	257.9	202.8
Hypertension.....	22.6	39.7	42.4	*	*28.4	*32.9	30.7	47.1	49.0
Stroke.....	259.0	255.5	208.0	277.7	278.4	230.8	247.7	240.6	191.9
Pneumonia.....	224.6	263.5	199.9	297.8	310.8	221.7	180.4	232.6	184.6
Chronic obstructive pulmonary disease.....	55.4	146.2	143.8	89.4	179.6	160.0	34.8	124.3	132.4
Gallstones.....	47.6	39.6	39.4	51.9	41.4	41.2	45.0	38.5	38.1
Kidney disease.....	24.5	37.6	104.8	27.6	48.7	132.0	*22.6	30.4	85.8
Urinary tract infection.....	86.0	85.6	120.7	66.6	72.5	86.2	97.8	94.2	144.8
Hyperplasia of the prostate.....	...	...	...	183.3	67.2	33.1	...	...	...
Osteoarthritis.....	68.6	100.6	153.8	65.2	76.5	145.4	70.7	116.4	159.7
Injury.....	259.1	229.1	229.6	153.4	171.7	180.6	323.0	266.6	264.0
Fracture.....	195.8	170.2	161.7	92.6	116.4	111.4	258.1	205.4	197.0
Hip fracture.....	115.2	99.0	66.6	53.7	68.6	43.7	152.4	118.8	82.7
Complications of care and adverse effects.....	81.5	101.4	122.4	101.4	136.0	153.1	69.4	78.8	100.9
85 years and over <sup>3</sup> .....	5,606.3	6,050.9	5,808.9	6,420.9	6,166.6	6,210.0	5,289.6	6,003.3	5,619.1
Septicemia.....	135.6	153.9	253.9	139.0	207.3	278.8	134.3	131.9	242.2
Cancer, all.....	254.0	194.5	159.1	370.6	250.5	215.4	208.7	171.5	132.4
Colorectal cancer.....	47.6	49.7	25.6	*59.1	*58.8	*29.6	43.2	45.9	*23.7
Lung/bronchus/tracheal cancer.....	*19.1	12.1	*16.2	*	*20.9	*24.2	*	*8.5	*
Breast cancer <sup>4</sup> .....	...	...	...	...	...	...	*41.7	*20.5	*14.9
Prostate cancer.....	...	...	...	*87.8	*49.3	*20.0	...	...	...
Diabetes.....	53.0	65.6	60.5	*53.5	*54.2	*65.3	52.8	70.3	*58.3
Schizophrenia, mood disorders, delusional disorders, nonorganic psychoses.....	*27.9	*37.3	*30.6	*	*	*45.9	*30.7	*43.0	*23.3
Dementia and Alzheimer's disease.....	49.7	107.0	85.3	*28.9	94.3	102.0	57.7	112.2	77.4
Heart disease.....	1,107.0	1,298.2	1,079.2	1,320.3	1,407.4	1,277.5	1,024.1	1,253.4	985.4
Ischemic heart disease.....	423.0	427.2	259.4	581.6	534.4	368.8	361.3	383.2	207.6
Heart attack.....	199.8	251.1	160.9	274.2	296.0	206.9	170.9	232.7	139.2
Arrhythmias.....	167.2	232.4	224.3	189.6	247.1	209.3	158.5	226.4	231.4
Heart failure.....	416.7	480.4	454.0	460.5	455.7	530.1	399.7	490.5	418.1

Hypertension.....	*17.9	41.1	67.0	*	*18.3	*55.6	*19.3	50.4	72.3
Stroke.....	427.2	373.8	289.6	408.2	396.7	302.3	434.6	364.3	283.6
Pneumonia.....	501.0	514.9	370.1	753.7	607.8	448.3	402.8	476.8	333.0
Chronic obstructive pulmonary disease.....	44.1	130.9	147.6	*72.9	150.4	167.4	*32.9	123.0	138.3
Gallstones.....	60.7	39.2	38.9	*68.2	*29.7	39.1	57.8	*43.1	38.8
Kidney disease.....	47.1	49.5	157.5	92.4	*68.1	189.3	*29.4	*41.9	142.5
Urinary tract infection.....	216.5	191.5	289.6	239.3	153.1	194.4	207.6	207.2	334.6
Hyperplasia of the prostate.....	...	...	...	158.6	*69.9	*45.9	...	...	...
Osteoarthritis.....	44.5	56.0	70.3	*	*	*48.0	35.8	57.3	80.9
Injury.....	542.0	545.5	535.8	435.4	355.6	401.7	583.4	623.5	599.3
Fracture.....	439.0	450.9	412.7	335.7	252.4	286.0	479.2	532.4	472.7
Hip fracture.....	272.3	275.1	223.7	224.4	146.5	167.4	291.0	327.9	250.3
Complications of care and adverse effects.....	96.6	79.1	126.5	132.3	90.5	151.5	82.7	74.4	114.7

\*Estimates are considered unreliable. Data preceded by an asterisk have a relative standard error (RSE) of 20%-30%.

Data not shown have an RSE of greater than 30%.

...Category not applicable.

<sup>1</sup>Starting with 2008 data, the sample of nonfederal short-stay hospitals was cut in half.

This smaller sample size has increased standard errors. Therefore, caution should be exercised in interpreting trends in these data. See Appendix I, National Hospital Discharge Survey (NHDS).

<sup>2</sup>Estimates are age-adjusted to the year 2000 standard population using six age groups: under 18 years, 18-44 years, 45-54 years, 55-64 years, 65-74 years, and 75 years and over. See Appendix II, Age adjustment.

<sup>3</sup>Includes discharges with first-listed diagnoses not shown in table.

<sup>4</sup>Shown for women only.

NOTES: Excludes newborn infants.

Diagnostic categories are based on the *International*

*Classification of Diseases, 9th Revision, Clinical Modification* (ICD-9-CM).

See Appendix II, Diagnosis; Human immunodeficiency virus (HIV) disease;

*International Classification of Diseases, 9th Revision, Clinical Modification* (ICD-9-CM);

Table X for ICD-9-CM codes.

Rates are based on the civilian population as of July 1.

Starting with *Health, United States, 2003*, rates for 2000 and beyond are based on the 2000 census.

Rates for 1990-1999 use population estimates based on the 1990 census adjusted for net underenumeration using the 1990

National Population Adjustment Matrix from the U.S. Census Bureau.

Rates for 1990-1999 are not strictly comparable with rates for 2000 and beyond

because population estimates for 1990-1999 have not been revised to reflect the 2000 census.

See Appendix I, National Hospital Discharge Survey (NHDS); Population Census and Population Estimates.

Additional data and diagnosis categories are available from: <http://www.cdc.gov/nchs/hdi.htm>.

Data for additional years are available. See Appendix III.

SOURCE: CDC/NCHS,

National Hospital Discharge Survey.

See Appendix I, National Hospital Discharge Survey (NHDS).

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