

Hospitalizations Related to Diabetes

Persons with diabetes are at greater risk of hospitalization due to complications such as diabetic ketoacidosis, end-stage renal disease, lower extremity amputation, and cardiovascular disease.

- In 2006, the total hospital discharge rate in Virginia for persons with a primary diagnosis of diabetes was 15.3 per 10,000 persons.

Summary Statistics for Hospital Discharges with a Primary Diagnosis of Diabetes in Virginia, 2006

Total diabetes discharges	11,881
Total charges	\$ 227,469,424
Average charges per discharge	\$19,145.65
Average length of stay	5.1 days

Hospitalizations by Population Sub-Group

- Males account for a slightly higher percentage of hospitalizations due to a primary cause of diabetes.

Percent of Hospital Discharges with a Primary Diagnosis of Diabetes by Gender in Virginia, 2006

Gender	Percent
Female	48.7%
Male	51.3%

Health People 2010 Objective: (1-9) Reduce hospitalization rates for persons 18 to 64 years with diabetes to 7.2 per 10,000 admissions.

Source: Virginia Health Information, Inc. Hospital Discharge Dataset, 2006 with a primary diagnosis of ICD-9-CM 250.xx.

Percent of Hospital Discharges with a Primary Diagnosis of Diabetes by Race and Ethnicity in Virginia, 2006

Race/Ethnicity Category	Percent
White	54.0
Black	41.1
Hispanic	1.8
Other, Non-Hispanic	1.4
Unknown	1.7

- Most hospital discharges occur in the white population because they are the largest population subgroup. However, prevalence of diabetes is higher in blacks than whites (14.4% vs. 7.4%). Thus, a disproportionate share of hospitalizations due to diabetes is among the black population.

Percent of Hospital Discharges with a Primary Diagnosis of Diabetes by Age Group in Virginia, 2006

Age Group	Percent
Under 5	0.45
5-14 Years	3.7
15-24 Years	7.4
25-34 Years	8.8
35-44 Years	14.7
45-54 Years	18.8
55-64 Years	17.2
65-74 Years	13.9
75-84 Years	11.05
85+ Years	4.0

- Hospitalizations for diabetes are most common in the 45 to 64 age groups. The smaller percentage of hospitalizations due to diabetes in the oldest groups probably reflects smaller total population in those groups and shorter life spans for persons with diabetes.

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Source: Virginia Health Information, Inc. Hospital Discharge Dataset, 2006 with a primary diagnosis of ICD-9-CM 250.xx.

Data note: Rates are age-adjusted per 10,000 population using Virginia estimated population values published by the U.S. Census Bureau.

Hospital Discharges by Virginia Health District, 2006

Discharge rates varied considerably across health districts (7.0 to 34.8 per 10,000 population).

- Health districts with the highest diabetes hospital discharge rates were:
 - Portsmouth
 - Crater
 - Roanoke
 - Norfolk
 - Southside

- The higher total hospital discharge rates for diabetes in these five health districts may be related to the higher proportion of minority residents in those areas. Minority populations are at greater risk of hospitalization due to diabetes.

- The state total in 2006 was 15.3 hospital discharges per 10,000 population.

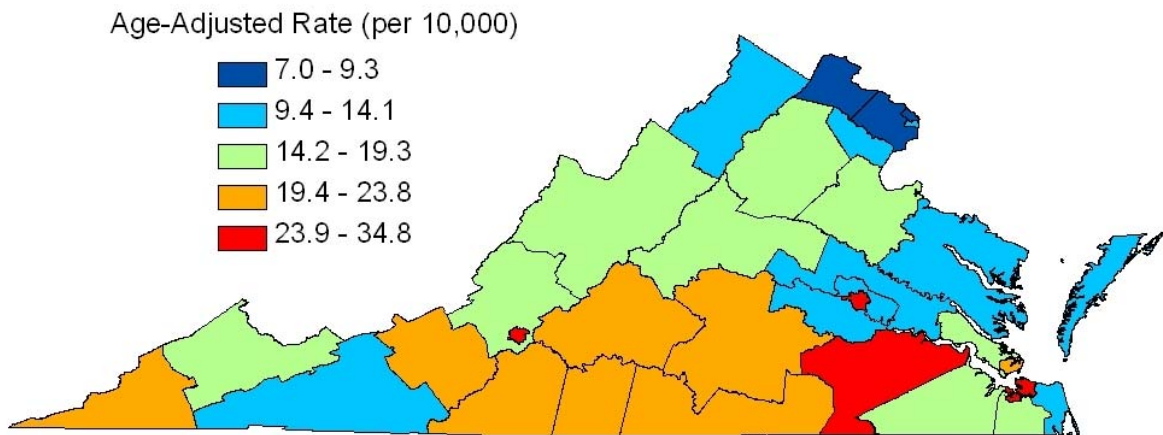
**Age-Adjusted Hospital Discharge Rates with a Primary Diagnosis of
Diabetes in Virginia Health Districts, 2006**

Virginia Health District	Age-Adjusted Rate¹
Alexandria	10.8
Alleghany	17.0
Arlington	7.7
Central Shenandoah	16.2
Central Virginia	20.6
Chesapeake	17.1
Chesterfield	11.8
Chickahominy (formerly Hanover)	11.8
Crater	34.8
Cumberland Plateau	18.8
Eastern Shore	14.0
Fairfax	7.0
Hampton	20.5
Henrico	12.0
Lenowisco	23.2
Lord Fairfax	11.3
Loudon	9.3
Mount Rogers	14.1
New River	21.6
Norfolk	27.3
Peninsula	15.7
Piedmont	21.4
Pittsylvania/Danville	21.4
Portsmouth	31.0
Prince William	11.3
Rappahannock	16.0
Rappahannock/Rapidan	16.5
Richmond	29.4
Roanoke	27.2

Source: VHI Hospital Discharge dataset, 2006; rate are age-adjusted per 10,000 population.

Southside	23.7
Thomas Jefferson	19.3
Three Rivers	14.0
Virginia Beach	11.7
West Piedmont	23.8
Western Tidewater	18.6
State Total	15.3

Diabetes Hospital Discharge Rate by Virginia Health District, 2006



Source: Virginia Health Information (VHI).
 Rates are age-adjusted to the 2000 U.S. standard population.