

Estimating the Cost Burden of Diabetes for Alaska in 2002

| Population (18+) | Diabetes Prevalence (a) | Direct Medical Cost of Diabetes Care (\$10,683) (b = (a * 10,683)) | Indirect Cost of Diabetes Care (\$3,289) (c = (a * 3,289)) | Total Cost Burden of Diabetes (d = (b + c)) |
|----------------------|-------------------------------|--|--|---|
| Total: | 18,649 | \$199,227,267 | \$61,336,561 | \$260,563,828 |
| Gender: | | | | |
| Male | 8,499 | \$90,794,817 | \$27,953,211 | \$118,748,028 |
| Female | 10,150 | \$108,432,450 | \$33,383,350 | \$141,815,800 |
| Regions: | | | | |
| Anchorage & Vicinity | 10,109 | \$107,994,447 | \$33,248,501 | \$141,242,948 |
| Fairbanks & Vicinity | 2,261 | \$24,154,263 | \$7,436,429 | \$31,590,692 |
| Gulf Coast | 2,421 | \$25,863,543 | \$7,962,669 | \$33,826,212 |
| Rural | 1,575 | \$16,825,725 | \$5,180,175 | \$22,005,900 |
| Southeast | 2,281 | \$24,367,923 | \$7,502,209 | \$31,870,132 |
| Age Groups: | | | | |
| 18-44 | 3,505 | \$37,443,915 | \$11,527,945 | \$48,971,860 |
| 45-54 | 5,010 | \$53,521,830 | \$16,477,890 | \$69,999,720 |
| 55-64 | 4,622 | \$49,376,826 | \$15,201,758 | \$64,578,584 |
| 65+ | 5,512 | \$58,884,696 | \$18,128,968 | \$77,013,664 |
| Household Income: | | | | |
| <\$15,000 | 2,492 | \$26,622,036 | \$8,196,188 | \$34,818,224 |
| \$15,000 - \$24,999 | 3,364 | \$35,937,612 | \$11,064,196 | \$47,001,808 |
| \$25,000 - \$34,999 | 2,501 | \$26,718,183 | \$8,225,789 | \$34,943,972 |
| \$35,000 - \$49,000 | 2,195 | \$23,449,185 | \$7,219,355 | \$30,668,540 |
| \$50,000 - \$74,999 | 2,121 | \$22,658,643 | \$6,975,969 | \$29,634,612 |
| \$75,000+ | 3,747 | \$40,029,201 | \$12,323,883 | \$52,353,084 |

DEFINITIONS:

a - Estimated number of adults with Self-reported Diabetes obtained from Alaska Behavioral Risk Factor Surveillance System, 2001-2003, 3-year average.

b - Direct Medical Costs are directly associated with treatment of the disease, including medical expenditures for routine services and treatment of complications. The total national direct medical cost burden per capita with diabetes in 2002 is \$13,243 and the estimate per person without diabetes is \$2,560. The \$10,683 difference is used to net out the regular medical care costs unrelated to diabetes and its sequelae.

c - Indirect Costs are national per capita dollar estimates associated with decreased productivity, disability, and premature death resulting from diabetes.

d - Total cost burden of diabetes is the sum of the direct and indirect diabetes costs.

Note: Per capita estimates refer to persons with diabetes of all ages and this probably overestimates the total actual costs in younger age groups and definitely underestimates the costs in the over 55 age groups.

SOURCE: Hogan P, Dall T, Nikolov P (2003) Economic costs of diabetes in the U.S. in 2002. *Diabetes Care*, 26(3): 917-32.