

November 21, 2008

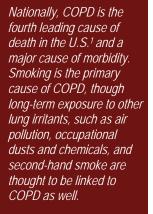
Division of Public Health Department of Health and Social Services

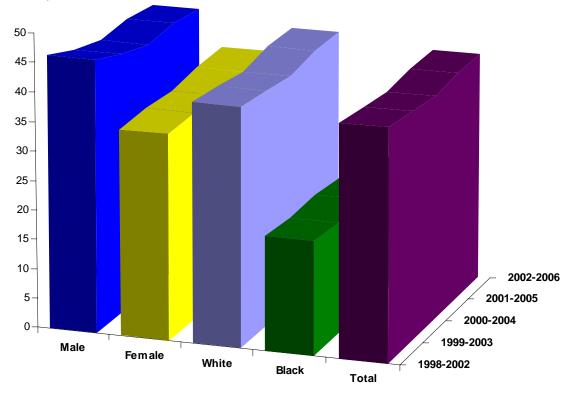
Mortality due to Chronic Obstructive Pulmonary Disease (COPD) in Delaware

COPD is a progressive group of chronic lung diseases characterized by airflow obstruction that interferes with normal breathing. COPD is mainly comprised of two illnesses: chronic bronchitis and emphysema.

In 2002-2006, one in 20 deaths in Delaware had COPD as the underlying cause, and the age-adjusted mortality rate was 39 deaths per 100,000 population. COPD mortality rates were higher for whites, whose rate was twice that of blacks, and males, though the gap between males and females narrowed as male rates decreased and female rates increased from 1998-2002 to 2002-2006.

Figure 1. Five-year Average COPD Mortality Rates by Sex and Race Delaware, 1998-2006





Notes:

- 1. COPD was defined by ICD-9 codes 490-492, 496 and ICD-10 codes J40-J44.
- 2. Rates are per 100,000 and were age-adjusted to the 2000 U.S. standard population.

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The majority of COPD deaths occur in those over age 44 and the number of deaths increases with age. Whites account for over 90 percent of all COPD deaths, and just over 50 percent of the deaths are females.

November is National COPD Awareness Month. For more information on COPD, visit: http://www.nhlbi.nih.gov/health/public/lung/copd/ or http://www.nhlbi.nih.gov/health/dci/Diseases/Copd/Copd_WhatIs.html.

Table 1. Chronic obstructive pulmonary disease (COPD) Mortality Trends by Race, Gender, and Age Delaware, 1992-2006

| | | FIVE-YEAR INTERVAL | | | | | | | | | | |
|----------------|-------------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CHARACTERISTIC | | 1992- | 1993- | 1994- | 1995- | 1996- | 1997- | 1998- | 1999- | 2000- | 2001- | 2002- |
| | | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| Resider | nt Deaths | | | | | | | | | | | |
| | Number | 1246 | 1293 | 1344 | 1405 | 1484 | 1505 | 1558 | 1582 | 1601 | 1680 | 1731 |
| | Crude Rate | 34.7 | 35.5 | 36.3 | 37.5 | 39.0 | 39.1 | 39.9 | 40.0 | 39.9 | 41.2 | 41.9 |
| | AADR ¹ | 37.6 | 37.9 | 38.4 | 38.9 | 40.0 | 39.3 | 39.6 | 39.0 | 38.2 | 39.0 | 39.0 |
| Race | | | | | | | | | | | | |
| White | Number | 1139 | 1181 | 1223 | 1270 | 1341 | 1359 | 1412 | 1434 | 1449 | 1535 | 1578 |
| | Percent | 91.4% | 91.3% | 91.0% | 90.4% | 90.4% | 90.3% | 90.6% | 90.6% | 90.5% | 91.4% | 91.2% |
| | AADR ¹ | 39.0 | 39.3 | 39.7 | 40.0 | 41.0 | 40.3 | 40.7 | 40.1 | 39.4 | 40.6 | 40.7 |
| Black | Number | 107 | 112 | 121 | 135 | 143 | 146 | 146 | 148 | 152 | 145 | 153 |
| | Percent | 8.6% | 8.7% | 9.0% | 9.6% | 9.6% | 9.7% | 9.4% | 9.4% | 9.5% | 8.6% | 8.8% |
| | AADR ¹ | 18.4 | 18.9 | 19.0 | 21.1 | 20.4 | 19.7 | 19.4 | 19.0 | 19.4 | 18.8 | 19.6 |
| Gender | | | | | | | | | | | | |
| Female | e Number | 626 | 662 | 678 | 708 | 761 | 778 | 821 | 852 | 869 | 915 | 953 |
| | Percent | 50.2% | 51.2% | 50.4% | 50.2% | 51.1% | 51.4% | 52.4% | 53.6% | 54.0% | 54.2% | 54.8% |
| | AADR ¹ | 31.4 | 32.3 | 32.3 | 32.8 | 34.3 | 34.1 | 35.0 | 35.3 | 35.0 | 35.9 | 36.4 |
| Male | Number | 621 | 631 | 668 | 701 | 729 | 735 | 746 | 739 | 741 | 772 | 786 |
| | Percent | 49.8% | 48.8% | 49.6% | 49.8% | 48.9% | 48.6% | 47.6% | 46.4% | 46.0% | 45.8% | 45.2% |
| | AADR ¹ | 48.0 | 47.5 | 48.7 | 49.2 | 49.0 | 47.4 | 46.4 | 44.1 | 42.6 | 43.2 | 42.7 |
| Age | | | | | | | | | | | | |
| <25 | Number | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 |
| | Rate ² | | | | | | | | | | | |
| 25-44 | Number | 8 | 7 | 6 | 7 | 5 | 7 | 8 | 11 | 14 | 14 | 12 |
| | Rate ² | | | | | | | | | | | |
| 45-54 | Number | 18 | 19 | 24 | 22 | 32 | 32 | 31 | 37 | 39 | 36 | 38 |
| | Rate ² | | | 5.3 | 4.7 | 6.6 | 6.3 | 5.9 | 6.8 | 7.0 | 6.2 | 6.4 |
| 55-64 | Number | 142 | 132 | 127 | 129 | 145 | 142 | 149 | 166 | 166 | 156 | 147 |
| | Rate ² | 46.3 | 42.4 | 39.9 | 39.5 | 43.0 | 40.8 | 41.1 | 43.8 | 41.8 | 37.5 | 33.6 |
| 65-74 | | 397 | 407 | 407 | 429 | 421 | 420 | 405 | 402 | 394 | 413 | 425 |
| | Rate ² | 149.1 | 151.0 | 149.3 | 155.9 | 151.1 | 149.0 | 142.3 | 139.8 | 135.4 | 140.5 | 142.8 |
| 75+ | Number | 680 | 727 | 782 | 822 | 887 | 911 | 973 | 974 | 996 | 1067 | 1117 |
| | Rate⁴ | 379.1 | 388.2 | 400.5 | 404.0 | 417.7 | 412.4 | 424.2 | 408.8 | 402.9 | 417.3 | 422.1 |

Notes:

Source:

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^{1.} Age-Adjusted Death Rate per 100,000, adjusted to 2000 U.S. Standard Population.

Age-specific rate per 100,000 population. "---" indicates rate does not meet standards of reliability or precision; based on fewer than 20 deaths in the numerator.

References:

- 1. Mannino DM, Homa DM, Akinbami L, Ford ES, Redd SC. Chronic Obstructive Pulmonary Disease Surveillance United States, 1971-2000. MMWR 2002;51;1-16.
- 2. Brown DW, Croft JB, Greenlund KJ, Giles WH. **Deaths from Chronic Obstructive Pulmonary Disease United States, 2000-2005.** MMWR 2008;57;1229-1232.
- U.S. Department of Health and Human Services. National Institutes of Health. (November 13, 2008). New Survey Suggests Growing Awareness of COPD, Nation's Fourth Leading Killer. NIH News Release. Accessed 11/18/2008 from http://www.nih.gov/news/health/nov2008/nhlbi-13.htm.



If you have comments, suggestions, and/or questions, please contact the Delaware Health Statistics Center at (302) 744-4541.

Reported by Barbara Gladders