Cancer Incidence and Mortality in Delaware

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Delaware Cancer Incidence and Mortality Rates

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Delaware Division of Public Health
Department of Health and Social Services
Dover, Delaware
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Stage of Diagnosis
Incidence and Mortality

- Exposure
- Physiologic Changes
- Latency
- Symptoms Diagnosis
- Death

Co-factors
Promoters
Susceptibility

Incidence
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Leading Causes of Death

Leading Causes of Death
Delaware, 1999 - 2001

- Heart Disease: 29%
- Cancer: 25%
- Stroke: 6%
- Chronic Lower Respiratory Diseases: 5%
- Accidents: 3%
- Diabetes: 3%
- All other causes: 29%
Cancer Incidence, 1997-2001, Delaware

- Lung/Bronchus
- colorectal (CRC)
- Breast
- Prostate

Lung (16%)
CRC (12%)
Breast (15%)
Prostate (15%)
Cancer Deaths, 1997-2001, Delaware

- Lung/Bronchus (30%)
- Colorectal (10%)
- Breast (8%)
- Prostate (5%)
- Bone
- Brain & CNS
- Kidney
- Myeloma
- Lung
- Lung (30%)
- Brain & CNS
- Non-Hodgkin’s
- Larynx
- Cervix
- Leukemia
- Oral Cavity
- Esophagus
- Liver
- Ovary
- Ovary
- Oral Cavity
- Oral Cavity
- Pancreas
- Pancreas
- Soft Tissue
- Soft Tissue
- Stomach
- Stomach
- Thyroid
- Thyroid
- Ureter
- Ureter
- Uterus
- Uterus
- Vulva
- Vulva
- All Other
- All Other
- Unknown
- Unknown
- Testis
- Testis
- Hodg. Lymph.
- Hodg. Lymph.
Overall Trend

Cancer Incidence and Mortality Average Annual Age-adjusted Rates per 100,000, Delaware

Rate per 100,000

DE Incidence

DE Mortality
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Incidence of Selected Cancers

Cancer Incidence Age-adjusted rates per 100,000, Delaware
Incidence of Selected Cancers, Men

Cancer Incidence Average Annual Age-adjusted Rates per 100,000, Delaware, Males
Incidence of Selected Cancers, Women

Cancer Incidence Average Annual Age-adjusted Rates per 100,000, Delaware, Females
Mortality from Selected Cancers

Cancer Mortality Age-adjusted rates per 100,000, Delaware

Rate per 100,000

- Lung
- Colorectal
- Female Breast
- Prostate
Mortality from Selected Cancers, Men

Cancer Mortality Average Annual Age-adjusted Rates per 100,000, Delaware, Males
Mortality from Selected Cancers, Women

Cancer Mortality Average Annual Age-adjusted Rates per 100,000, Delaware, Females

- Lung
- Colorectal
- Breast
Incidence by County

Cancer Incidence Average Annual Age-adjusted Rates per 100,000, Delaware, 1997-2001

- All
- Lung
- Colorectal
- Breast
- Prostate

Delaware
New Castle
Kent
Sussex
Cancer Mortality Average Annual Age-adjusted Rates per 100,000, Delaware, 1997-2001

Mortality by County

- All
- Lung
- Colorectal
- Breast
- Prostate

Legend:
- Delaware
- New Castle
- Kent
- Sussex
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Delaware Cancer Rates Compared to U.S.

National Average is represented by SEER (Surveillance, Epidemiology and End Results) Registries, a program of the National Cancer Institute.
Lung Cancer Incidence and Mortality Age-adjusted rates per 100,000, Delaware and U.S.

National Average is represented by SEER (Surveillance, Epidemiology and End Results) Registries, a program of the National Cancer Institute
Female Breast Cancer Incidence and Mortality Age-adjusted rates per 100,000, Delaware and U.S.

National Average is represented by SEER (Surveillance, Epidemiology and End Results) Registries, a program of the National Cancer Institute.
Colorectal Cancer

Colorectal Cancer Incidence and Mortality Age-adjusted rates per 100,000, Delaware and U.S.

National Average is represented by SEER (Surveillance, Epidemiology and End Results) Registries, a program of the National Cancer Institute.
Prostate Cancer

Prostate Cancer Incidence and Mortality Age-adjusted rates per 100,000, Delaware and U.S.

National Average is represented by SEER (Surveillance, Epidemiology and End Results) Registries, a program of the National Cancer Institute
Summary: Delaware Cancer Incidence Rate Compared to U.S. Estimate

Average Annual Age-Adjusted Cancer Incidence Per 100,000, Delaware and Nation, 1996-2000

- Lung: 25.0% (Delaware) vs. 10.5% (Nation)
- Colorectal: 10.5% (Delaware) vs. 10.5% (Nation)
- Breast: -0.7% (Delaware) vs. -5.9% (Nation)
- Prostate: -5.9% (Delaware) vs. -5.9% (Nation)

National Average is represented by SEER (Surveillance, Epidemiology and End Results) Registries, a program of the National Cancer Institute
Summary: Delaware Cancer Mortality Rate Compared to U.S.

National Average is represented by SEER (Surveillance, Epidemiology and End Results) Registries, a program of the National Cancer Institute
Summary: Delaware Cancer Incidence Rate Trend Compared to U.S.

Percent Decrease in Average Annual Age-Adjusted Cancer Incidence Per 100,000, Delaware and Nation, 1990-1994 to 1996-2000

National Average is represented by SEER (Surveillance, Epidemiology and End Results) Registries, a program of the National Cancer Institute
Summary: Delaware Cancer Mortality Rate Trend Compared to U.S.

Percent Decrease in Average Annual Age-Adjusted Cancer Mortality Per 100,000, Delaware and Nation, 1990-1994 to 1996-2000

Percent Decrease Over Time Period

- All Cancers
- Lung
- Colorectal
- Breast
- Prostate

Delaware
U.S.
Childhood (0-19 Years) Cancer, Delaware and U.S.

Cancer Incidence and Mortality Average Annual Age-adjusted Rates per 100,000, 0-19 Years at Diagnosis, Delaware and U.S.

National Average is represented by SEER (Surveillance, Epidemiology and End Results) Registries, a program of the National Cancer Institute
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All Cancers by Race

Five-Year Average Age-adjusted Cancer Incidence and Mortality Rates, Delaware, 1997-2001

- Incidence:
  - White: 6.3%
  - African American: 23.9%

- Mortality:
  - White: [Bar graph]
  - African American: [Bar graph]
Racial Disparity: Incidence

Average Annual Age-Adjusted Incidence Rate per 100,000 by Race, Delaware 1997-2001

- Lung: 8.6%
- Colorectal: 11.4%
- Breast: 60.1%
- Prostate: -9.5%
Racial Disparity: Mortality

Average Annual Age-Adjusted Mortality Rate per 100,000 by Race, Delaware 1997-2001

- **Lung**
  - White: 13.6%
  - Black: 45.5%
- **Colorectal**
  - White: 22.2%
  - Black: 139.4%

Chart shows the mortality rates for different races and types of cancer.
Racial Disparity Trend

Percentage that Black Cancer Rates Exceed White Rates Based on Age-adjusted rates per 100,000, Delaware and U.S.

National Average is represented by SEER (Surveillance, Epidemiology and End Results) Registries, a program of the National Cancer Institute
Summary: Delaware Cancer Incidence Rate Trend Compared to U.S., Blacks

National Average is represented by SEER (Surveillance, Epidemiology and End Results) Registries, a program of the National Cancer Institute
Summary: Delaware Cancer Mortality Rate Trend Compared to U.S., Blacks

Percent Decrease in Average Annual Age-Adjusted Cancer Mortality Per 100,000, Delaware and Nation, Blacks
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Stage at Diagnosis
Lung Cancer, 1992-1999

**Delaware Staging**

- Local: 13%
- Region: 21%
- Distant: 40%
- Unknown: 26%

**United States Staging**

- Local: 16%
- Region: 36%
- Distant: 38%
- Unknown: 10%

U.S. data from SEER (Surveillance, Epidemiology and End Results) Registries, a program of the National Cancer Institute
Stage at Diagnosis

ColoRectal Cancer, 1992-1999

Delaware Staging

- Local: 30%
- Region: 46%
- Distant: 6%
- Unknown: 18%

United States Staging

- Local: 38%
- Region: 38%
- Distant: 19%
- Unknown: 5%

U.S. data from SEER (Surveillance, Epidemiology and End Results) Registries, a program of the National Cancer Institute
Stage at Diagnosis

Breast, 1992-1999

Delaware Staging

- Local: 64%
- Region: 5%
- Distant: 4%
- Unknown: 5%

United States Staging

- Local: 62%
- Region: 29%
- Distant: 6%
- Unknown: 3%

U.S. data from SEER (Surveillance, Epidemiology and End Results) Registries, a program of the National Cancer Institute
Stage at Diagnosis
Prostate Cancer, 1992-1999

Delaware Staging
- Local/Regional: 85%
- Distant: 6%
- Unknown: 9%

United States Staging
- Local/Regional: 86%
- Distant: 6%
- Unknown: 8%

U.S. data from SEER (Surveillance, Epidemiology and End Results) Registries, a program of the National Cancer Institute
Importance of Tobacco to “Excess” Incidence

Percent Increase in Delaware Cancer Age-adjusted Incidence vs. U.S. Estimate, 1996-2000

- All Cancer: 4.8%
- Tobacco Related: 17.7%
- Non-Tobacco Related: 1.0%

National Average is represented by SEER (Surveillance, Epidemiology and End Results) Registries, a program of the National Cancer Institute. Tobacco related cancers: lung, bladder, larynx, esophageal, kidney, pancreas, oral.
Questions