New York State Department of Health Office of Quality and Patient Safety Bureau of Vital Statistics



Leading Causes of Death, New York State, 2012

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An understanding of the relative burden of cause-specific mortality can provide valuable insight into a population's health for purposes of public health planning and policy. Toward this end, this report presents data on the ten leading causes of death in New York State during 2012 by age, sex, race, region, and Medicaid enrollment status. Additionally, the 10 leading causes of death in the years 2002, 2007, and 2012 are compared to illustrate changes in cause-specific mortality in 5-year intervals over a ten year period.

Methods

New York State Vital Statistics mortality data were used as the data source for this report. Leading causes of death for those aged 1 and older are identified on the basis of underlying cause, which is determined from all causes documented on the death certificate using the Automated Classification of Medical Entities (ACME) software.¹ Using NCHS methodology, which is based on recommendations from the 1951 Public Health Conference on Records and Statistics, causes of death are ranked according to the number of deaths attributed to each in a list of 50 rankable causes. These 50 rankable causes were identified from the NCHS "List of 113 Selected Causes of Death and Enterocolitis due to *Clostridum difficile*" on the basis of being clearly defined, mutually exclusive, and having significant public health importance.^{2,3}

Results

In 2012, the 10 leading causes of death accounted for 75.7% of all deaths that occurred in New York State, with the top two causes, diseases of the heart and malignant neoplasms (cancer), together accounting for 54%. Ranked in order from third through tenth were chronic lower respiratory disease (CLRD), cerebrovascular disease, accidents, pneumonia, Alzheimer's disease, septicemia, kidney disease (nephritis, nephrotic syndrome, & nephrosis), and hypertension. With the exception of kidney disease moving from 8th to 9th and septicemia moving from 9th to 8th, the leading causes of death were unchanged from 2011 to 2012 (Table 1).

Table 2 shows considerable differences in the ten leading causes of death by age group for 2012. In all age groups younger than 45-64, accidents are the leading cause of death, accounting for between 20% and 29% of all deaths among persons between 1 and 44 years of age. Suicide and homicide appear among the ten leading causes of death among in the younger age groups, dropping off the list with the 45-64 and older age groups. Also, among those between the ages of 20 and 64, conditions associated with risk taking (AIDS, chronic liver disease, and viral hepatitis), appear among the 10 leading causes. Though malignant neoplasms and heart disease are among the ten leading causes of death across all age groups, they comprise the leading two causes in the 45-64, 65-84, and 85+ age groups. Heart disease, though the leading cause of death over all, is ranked as the top leading cause of death only among those 85 years and older, when causes of death are ranked by age group.

Ranking the causes of death by sex (Table 3) reveals that heart disease and cancer are, respectively, the first and second leading causes of death among both men and women in New York State. Notable differences include accidents ranking higher among men than among women (3rd vs. 6th), suicide being among the 10 leading causes of death among men (7th)

but not among women, and Alzheimer's disease and hypertension ranked among the 10 leading causes for women (7th and 9th, respectively), but not for men.

Table 4 shows the leading causes of death by race. Heart disease and cancer are the first and second leading causes of death among Whites, Blacks, and Hispanics. Among decedents in the Other racial/ethnic category, cancer is ranked first in leading causes of death, followed by heart disease. Suicide appears among the 10 leading causes of death for Whites, Hispanics, and those in the Other category (10th, 10th, and 7th, respectively), while homicide/legal intervention is among the leading causes of death among Blacks (9th). Hypertension is among the ten leading causes of death for all racial/ethnic categories with the exception of Whites.

Consistent with the 10 leading causes of death in New York State over all, comparison of New York City to the Rest of State (Table 5) shows heart disease and cancer as the first and second leading causes. The most notable differences are the presence of AIDS and hypertension among the 10 leading causes in New York City, and kidney disease and septicemia present among the leading causes in Rest of State.

The ten leading causes of death were also compared between those decedents in New York State who were enrolled in Medicaid some time during the year of death and those who were not (Table 6). The four leading causes of death are the same for both decedents enrolled or not enrolled in Medicaid: heart disease, cancer, CLRD, and cerebrovascular disease. Alzheimer's disease ranks higher on the list among Medicaid enrollees than non-enrollees (7th vs. 9th). Hypertension is ranked among the ten leading causes among Medicaid enrollees (9th) but is not ranked among non-enrollees. Suicide is ranked among the ten leading causes of death for non-Medicaid enrollees (10th), and is not ranked among enrollees. Differences in causes of mortality between Medicaid and non-Medicaid decedents may be due, in part, to differences in age, sex, or race/ethnicity, but this is not explored in depth in this report.

To examine how cause-specific mortality has changed in 5-year intervals over a 10-year period, the ten leading causes of death in the years 2002, 2007, and 2012 are compared (Table 7). Heart disease remained the leading cause of death from 2002 through 2012, though it accounted for a decreasing percentage of all deaths over this period, from 36.5% in 2002 to 29.6% in 2012. Cancer remained as the second leading cause of death across all years, slightly increasing as a percentage of all deaths over this time period, and septicemia remained as the 8th leading cause across the three years compared. Alzheimer's disease moved up in rank, from the 10th leading cause of death in 2002 to 9th in 2007, and 7th in 2012. AIDS, the 9th leading cause of death in New York State in 2002, was no longer ranked among the ten leading causes of death by 2007.

Summary

The ten leading causes of death in New York State are similar to those reported nationally by the National Center for Health Statistics, a notable difference being the absence of diabetes mellitus among the ten leading causes in New York State, though appearing 7th on a recent national ranking.² The two leading causes of death in New York State for 2012 are heart disease and cancer, together accounting for 54% of all deaths. These two conditions have remained the leading causes of death from 2002, the first year used in this report for comparison to 2012. After these two leading causes, other causes of death ranking among the 10 leading causes each account for much lower percentages of total deaths.

The most pronounced differences in leading causes of death in 2012 are seen in comparison by age group. Accidents, suicide, homicide, and AIDS tend to be higher ranked as causes among younger decedents, with chronic disease (e.g., heart disease, cancer, and hypertension) ranking higher among older decedents.

Comparison of the ten leading causes of death in 2002, 2007, and 2012 consistently shows heart disease to be the leading cause of death over this period, though it accounts for a decreasing percentage of total deaths. The disappearance of AIDS from the ten leading causes of death from 2002 to 2007 is likely associated with the increased

use of antiretroviral medications to treat the condition, while the movement of Alzheimer's disease up in rank may reflect the aging of the population.

While ranking deaths based on the number of deaths attributable to specific causes (among causes eligible to be ranked) provides insight into the relative burden of cause-specific mortality, it should be noted that it does not reflect cause-specific risk of death as would be the case with mortality rates. Furthermore, causes of death of particular public health importance may be subsumed under the broader categories defined using this methodology (e.g., lung cancer falling into the category of malignant neoplasms), and, consequently, would not be ranked on a list of causes of death. Also, causes of death not ranked among the leading 10 may also be of significant public health importance as emergent or for other reasons. Additionally, due to underreporting of Hispanic ethnicity on death certificates, an unknown number of decedents in the White and Black racial categories are Hispanic, which could affect comparison of cause of death ranking across racial categories. Finally, variation in cause of death determination and/or reporting could influence rankings and thus affect comparisons by demographics, geography, or calendar year. Factors such as modifications in the coding of particular causes of death, or increasing awareness of certain conditions leading to a greater likelihood of those conditions being documented on the death certificate, may contribute to such variation.

	20	011		2012			
Rank	Underlying Cause of Death	Deaths	% of All Deaths	Underlying Cause of Death	Deaths	% of All Deaths	
1	Diseases of the Heart	43,935	30.1	Diseases of the Heart	43,237	29.6	
2	Malignant Neoplasms	35,027	24.0	Malignant Neoplasms	35,598	24.4	
3	Chronic Lower Respiratory Disease	6,900	4.7	Chronic Lower Respiratory Disease	6,986	4.8	
4	Cerebrovascular Disease	6,151	4.2	Cerebrovascular Disease	6,023	4.1	
5	Accidents	5,215	3.6	Accidents	5,416	3.7	
6	Pneumonia	4,801	3.3	Pneumonia	4,325	3.0	
7	Alzheimer's	2,530	1.7	Alzheimer's	2,623	1.8	
8	Nephritis, Nephrotic Sydrome, & Nephrosis Syndrome et al	2,187	1.5	Septicemia	2,308	1.6	
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9	Septicemia	2,157	1.5	Nephrosis	2,184	1.5	
10	Hypertension	2,006	1.4	Hypertension	1,980	1.4	
	Total from 10 Leading Causes	110,909	76.0	Total from 10 Leading Causes	110,680	75.7	
	All Causes	145,875	100	All Causes	146,180	100.0	

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	Underlying Cause of		Underlying Cause		Underlying Cause		
Rank	Death	Deaths	of Death	Deaths	of Death	Deaths	
	Malignant		Malignant		Diseases of the		
1	Neoplasms	9,248	Neoplasms	18,656	Heart	20,402	
	Diseases of the		Diseases of the		Malignant		
2	Heart	5,844	Heart	16,332	Neoplasms	6,632	
3	Accidents	1,543	Chronic Lower Respiratory Disease	3,757	Cerebrovascular Disease	2,686	
4	Chronic Lower Respiratory Disease	834	Cerebrovascular Disease	2,484	Chronic Lower Respiratory Disease	2,308	
5	Chronic Liver Disease & Cirrhosis	827	Pneumonia	1,646	Pneumonia	2,167	
6	Cerebrovascular Disease	732	Accidents	1,125	Alzheimer's	1,820	
7	Suicide	682	Septicemia	1,063	Accidents	937	
8	AIDS	479	Nephritis, Nephrotic Sydrome, & Nephrosis	979	Hypertension	935	
9	Pneumonia	438	Alzheimer's	771	Nephritis, Nephrotic Sydrome, & Nephrosis	902	
10	Viral Hepatitis	368	Hypertension	767	Septicemia	837	

Table 3	. Leading Causes of Death by Sex	k, New York State, 2	012			
	Males		Females			
Rank	Underlying Cause of Death	Deaths	Underlying Cause of Death	Deaths		
1	Diseases of the Heart	20,821	Diseases of the Heart	22,416		
2	Malignant Neoplasms	17,802	Malignant Neoplasms	17,796		
3	Accidents	3,533	Chronic Lower Respiratory Disease	3,928		
4	Chronic Lower Respiratory Disease	3,058	Cerebrovascular Disease	3,630		
5	Cerebrovascular Disease	2,393	Pneumonia	2,249		
6	Pneumonia	2,076	Accidents	1,883		
7	Suicide	1,266	Alzheimer's	1,875		
8	Nephritis, Nephrotic Syndrome, & Nephrosis	1,105	Septicemia	1,237		
9	Septicemia	1,071	Hypertension	1,189		
10	Chronic Liver Disease & Cirrhosis	984	Nephritis, Nephrotic Syndrome, & Nephrosis	1,079		

	Ŭ		oy Race, New York					
	White	1	Hispanic		Black		Other	
Rank	Underlying Cause of Death	Deaths	Underlying Cause of Death	Deaths	Underlying Cause of Death	Deaths	Underlying Cause of Death	Deaths
1	Diseases of the Heart	32,861	Diseases of the Heart	3,139	Diseases of the Heart	5,806	Malignant Neoplasms	1,520
2	Malignant Neoplasms	26,307	Malignant Neoplasms	2,847	Malignant Neoplasms	4,924	Diseases of the Heart	1,431
3	Chronic Lower Respiratory Disease	5,885	Accidents	645	Cerebrovascular Disease	748	Cerebrovascular Disease	277
4	Cerebrovascular Disease	4,561	Pneumonia	472	Pneumonia	647	Pneumonia	194
5	Accidents	4,018	Cerebrovascular Disease	437	Chronic Lower Respiratory Disease	591	Accidents	188
6	Pneumonia	3,012	Chronic Lower Respiratory Disease	365	Accidents	565	Chronic Lower Respiratory Disease	145
7	Alzheimer's	2,154	Chronic Liver Disease & Cirrhosis	262	Hypertension	448	Suicide	106
8	Septicemia	1,791	Alzheimer's	210	AIDS	427	Hypertension	94
9	Nephritis, Nephrotic Syndrome, & Nephrosis	1,698	Hypertension	202	Homicide and Legal Intervention	383	Nephritis, Nephrotic Syndrome, & Nephrosis	64
10	Suicide	1,263	Suicide	180	Nephritis, Nephrotic Syndrome, & Nephrosis	295	Septicemia	61

Table 5.	Leading Causes of Death by Regi	on, New York Sta	ite, 2012			
	New York City	Y	Rest of State			
Rank	Underlying Cause of Death	Deaths	Underlying Cause of Death	Deaths		
1	Diseases of the Heart	16,518	Diseases of the Heart	26,719		
2	Malignant Neoplasms	12,595	Malignant Neoplasms	23,003		
3			Chronic Lower Respiratory			
	Pneumonia	2,255	Disease	5,323		
4	Chronic Lower Respiratory					
	Disease	1,663	Cerebrovascular Disease	4,370		
5	Cerebrovascular Disease	1,653	Accidents	3,816		
6	Accidents	1,600	Pneumonia	2,070		
7	Hypertension	956	Alzheimer's	1,928		
8	Alzheimer's	695	Septicemia	1,821		
9			Nephritis, Nephrotic Syndrome, &			
	AIDS	583	Nephrosis	1,721		
10	Suicide	514	Suicide	1,139		

Table	6. Ten Leading Causes of Death by	Medicaid Status,	New York State, 2012			
	Non-Medicaid		Medicaid*			
Rank	Underlying Cause of Death	Deaths	Underlying Cause of Death	Deaths		
1	Diseases of the Heart	25,887	Diseases of the Heart	17,350		
2	Malignant Neoplasms	24,753	Malignant Neoplasms	10,845		
3	Chronic Lower Respiratory Disease	4,211	Chronic Lower Respiratory Disease	2,775		
4	Cerebrovascular Disease	3,666	Cerebrovascular Disease	2,357		
5	Accidents	3,457	Pneumonia	2,168		
6	Pneumonia	2,157	Accidents	1,959		
7	Septicemia	1,331	Alzheimer's	1,423		
8	Nephritis, Nephrotic Syndrome, & Nephrosis	1,311	Septicemia	977		
9	Alzheimer's	1,200	Hypertension	947		
			Nephritis, Nephrotic Syndrome, &			
10	Suicide	1,196	Nephrosis	873		

*Determined on the basis of Medicaid enrollment sometime during the year of death.

				k State, 2002, 2007					
	2002			2007			2012		
Rank	Underlying Cause of Death	Deaths	% of All Deaths	Underlying Cause of Death	Deaths	% of All Deaths	Underlying Cause of Death	Deaths	% of Al Deaths
1	Diseases of the Heart	56,638	36.5	Diseases of the Heart	49,398	34.0	Diseases of the Heart	43,237	29.6
2	Malignant Neoplasms	36,489	23.5	Malignant Neoplasms	35,249	24.3	Malignant Neoplasms	35,598	24.4
3	Cerebrovascular Disease	7,517	4.8	Chronic Lower Respiratory Disease	6,479	4.5	Chronic Lower Respiratory Disease	6,986	4.8
4	Chronic Lower Respiratory Disease	6,996	4.5	Cerebrovascular Disease	5,897	4.1	Cerebrovascular Disease	6,023	4.1
5	Pneumonia	5,413	3.5	Accidents	4,927	3.4	Accidents	5,416	3.7
6	Accidents	4,290	2.8	Pneumonia	4,502	3.1	Pneumonia	4,325	3.0
7	Nephritis, Nephrotic Syndrome, & Nephrosis	2,449	1.6	Nephritis, Nephrotic Syndrome, & Nephrosis	2,369	1.6	Alzheimer's	2,623	1.8
8	Septicemia	2,211	1.4	Septicemia	2,271	1.6	Septicemia	2,308	1.6
9	AIDS	1,997	1.3	Alzheimer's	1,978	1.4	Nephritis, Nephrotic Syndrome, & Nephrosis	2,184	1.5
10	Alzheimer's	1,997	1.3	Hypertension	1,978	1.4	Hypertension	1,980	1.5

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