# Maine Mortality Report: Ten Most Common Causes of Death 2019

Maine CDC Data, Research, and Vital Statistics February 2022



#### Acknowledgements

This report is produced under the general supervision and guidance of Kim Haggan, State Registrar and Director, Data, Research, and Vital Statistics (DRVS). Staff significantly involved in the production include:

Anne Rogers, MEd, Supervisor, Statistical Services Unit (*Retired*)- cleaning and editing databases, programming to extract and tabulate these data.

Carolyn Bancroft, MPH, DrPH, Surveillance and Statistics Manager – cleaning and editing databases, programming, data analysis, epidemiologic oversight and writing the text.

Sarah Wilcox, PhD, Data Analyst- cleaning and editing databases, programming, data analysis, and editorial review.

Jessica Cross, MPH, Epidemiologist - data checking.

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## Section 1: Leading Causes of Death in Maine, 2019

	Top 10 Leading Causes of Death in Maine, 2019							
		-	-		-		Cancer, 3,415	
						Heart Dise	ase, 2,939	
		Uninter	ntional injuries, 1,0	26				
		Chronic	Lower Respiratory	Diseases, 1,018				
	Се	rebrovascular Dise	ases, 643					
	Alzheir	mer's Disease, 545						
	Diabetes	Mellitus, 476						
	Infuenza and Pr	neumonia, 301						
	Suicide, 276							
	Nephritis, Nephr	rotic Syndrome and	Nephrosis, 240					
0	500	1000	1500 Numbe	2000 r of Deaths	2500	3000	3500	

*Technical note:* Ranks are based on number of deaths assigned to a rankable cause, not crude or ageadjusted rate comparisons, based on National Center for Health Statistics guidance.

#### Maine Leading Cause of Death Rank, 2000-2019

Unintentional injuries have risen from the 6th to the 3rd leading cause of death in Maine since 2000.



2018 data: Maine Center for Disease Control and Prevention. Data, Reserach and Vital Statistics. October 2019.

## Summary of key findings

Key findings in comparison with the U.S.

- Cancer remains the leading cause of death in Maine and Heart Disease is the leading cause of death in the U.S.
- Maine's Cancer mortality rate is higher than the US and Maine's Heart Disease mortality rate is lower than the U.S.
- Maine's Unintentional Injury, Chronic Lower Respiratory Disease, Influenza and Pneumonia, and Suicide mortality rates are also higher than the U.S.

Key findings by Sex

- Cancer remains the leading cause of death among both males and females in Maine followed by Heart Disease as the 2<sup>nd</sup> leading cause of death.
- Unintentional injury is the 3<sup>rd</sup> leading cause of death among males and the 4<sup>th</sup> leading cause of death among females.

Key findings by County of Residence

- Compared with the entire state, Androscoggin, Kennebec, Penobscot, Piscataquis, Somerset, and Washington counties had higher overall mortality rates.
- Cumberland, Hancock, Lincoln, Sagadahoc, and York counties had lower overall mortality rates compared with the state.

Key findings of trends over time

- The statewide age-adjusted mortality rate decreased from 865.9 per 100,000 in 1999 to 760.0 per 100,000 in 2019. However, the decline in mortality plateaued starting in 2010 with no significant increase nor decrease since then.
- The age-adjusted cancer mortality rate in Maine decreased significantly over the past two decades from 214.6 per 100,000 in 1999 to 164.2 per 100,000 in 2019.
- The age-adjusted heart disease mortality rate decreased from 238.7 per 100,000 in 1999 to 142.5 per 100,000 in 2019. However, the decline in mortality plateaued starting in 2010 with no significant increase or decrease since then.
- The age-adjusted unintentional injury mortality rate nearly doubled over the past two decades from 34.9 per 100,000 in 1999 to 66.7 per 100,000 in 2019.
  - Unintentional injury deaths in Maine increased significantly from 2011 -2017 with an annual percent change of 11%, though they have plateaued between 2017-2019 with no statistically significant increase or decrease. It is the leading cause of death for individuals ages 54 and younger.

For information about analysis of trends in mortality rates over time, please refer to the description of Joinpoint analysis in the Technical Notes section at the end of this report.

## Section 2: At-a-Glance Sheets

## Maine vs. U.S. At-a-Glance Leading Causes of Death, 2019



Indicator	Unit	Maine	U.S.	Comparison	Year	
All Deaths	Rate per 100,000	760.0	715.2		2019	
All Deaths	95% CI	747.8- 772.3	714.4 - 716.1		2019	
Course Deaths	Rate per 100,000	164.2	146.2		2010	
Cancer Deaths	95% Cl	158.5 - 169.8	145.8 - 146.5		2019	
	Rate per 100,000	142.5	161.5	_	2010	
Heart Disease Deaths	95% CI	137.2 - 147.7	161.1 - 161.9		2019	
Unintentional Inium Deaths	Rate per 100,000	66.7	49.3		2010	
Unintentional Injury Deaths	95% CI	62.3 - 71.0	49.0 - 49.5		2019	
Chronic Lower Respiratory	Rate per 100,000	48.3	38.2		2010	
Disease Deaths	95% CI	45.3 - 51.3	38.0 - 38.4		2019	
Carebra was a lar Diasana Dootha	Rate per 100,000	31.4	37		2019	
Cerebrovascular Disease Deaths	95% CI	29.0 - 33.9	36.8 - 37.1		2019	
Al-haimada Diasasa Daatha	Rate per 100,000	25.9	29.8		2010	
Alzheimer's Disease Deaths	95% CI	23.8-28.1	29.7 - 30.0		2019	
Diabatas Daatha	Rate per 100,000	23.5	21.6		2010	
Diabetes Deaths	95% CI	21.4 - 25.7	21.4 - 21.7		2019	
Influenza and Pneumonia Deaths	Rate per 100,000	14.7	12.3		2019	
innuenza and Pheumonia Deaths	95% CI	13.0 - 16.4	12.2 - 12.4		2019	
Suicide Deaths	Rate per 100,000	19.4	13.9		2019	
	95% CI	17.0 - 21.8	13.8 - 14.1		2019	
Nephritis, Nephrotic Syndrome,	Rate per 100,000	11.6	12.7		2019	
and Nephrosis Deaths	95% CI	10.1 - 13.2	12.6 - 12.8		2013	

ME doing better than the U.S.

Rates are age-adjusted to the U.S. 2000 Standard Population.

• ME similar to the U.S.

95% CI: 95% Confidence Interval of the rate.

• ME doing worse than the U.S.

Maine data: Maine Center for Disease Control and Prevention. Data, Research, and Vital Statistics. US Data: Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 1999-2019 on CDC WONDER Online Database, released in 2020. Accessed at http://wonder.cdc.gov/ucd-icd10.html on Dec 23, 2020.

## Males vs. Females At-a-Glance

### Leading Causes of Death, Maine, 2019



Indicator	Unit	Males	Females	Maine Total	Bar Chart	Year
All Deaths	Rate per 100,000	903.7	637.9	760.0		2019
All Deaths	95% CI	883.6 - 923.8	622.9 - 652.9	747.8- 772.3		2019
Conserve De ether	Rate per 100,000	195.6	139.9	164.2		2019
Cancer Deaths	95% CI	186.4 - 204.8	132.7 - 147.1	158.5 - 169.8		2019
	Rate per 100,000	186.9	106.8	142.5		2010
Heart Disease Deaths	95% CI	177.7 - 196.1	100.9 - 112.8	137.2 - 147.7		2019
Unintentional Inium Deaths	Rate per 100,000	91.2	42.9	66.7		2010
Unintentional Injury Deaths	95% CI	83.8 - 98.6	38.2 - 47.6	62.3 - 71.0		2019
Chronic Lower Respiratory	Rate per 100,000	56.8	41.9	48.3		2019
Disease Deaths	95% CI	51.8 - 61.8	38.2 - 45.7	45.3 - 51.3		2019
Cerebrovascular Disease	Rate per 100,000	32.1	30.4	31.4		2010
Deaths	95% CI	28.2 - 35.9	27.2- 33.6	29.0 - 33.9		2019
	Rate per 100,000	21.0	29.0	25.9		2010
Alzheimer's Disease Deaths	95% CI	17.9-24.1	26.0-31.9	23.8-28.1		2019
	Rate per 100,000	29.6	18.7	23.5		2010
Diabetes Deaths	95% CI	26.0- 33.3	16.0 - 21.3	21.4 - 25.7		2019
Influenza and Pneumonia	Rate per 100,000	18.2	12	14.7		2010
Deaths	95% CI	15.3 - 21.1	10.0 - 14.0	13.0 - 16.4		2019
Cuicida Daotha	Rate per 100,000	32.3	7.3	19.4		2010
Suicide Deaths	95% CI	27.9 - 36.8	5.3 - 9.7	17.0 - 21.8		2019
Nephritis, Nephrotic Syndrome	Rate per 100,000	13.2	10.4	11.6		2010
and Nephrosis Deaths	95% CI	10.7- 15.6	8.5- 12.3	10.1 - 13.2		2019

Rates are age-adjusted to the U.S. 2000 Standard Population. 95% CI: 95% Confidence Interval of the rate. Bar Chart shows male and female rates in order listed on table from left to right; dark blue bar indicates the total Maine rate.

Data Source: Maine Center for Disease Control and Prevention. Data, Research, and Vital Statistics.

Created December 2020 by Anne Rogers based on work by Mary Caron, Finn Teach, and Sara Huston, Maine Center for Disease Control and Prevention.

#### **Trend At-a-Glance**

Leading Causes of Death, Maine, 2010-2019



Indicator	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	10-year trend	Progress
All Deaths	Rate per 100,000	749.6	752.8	730.4	754.2	739	783.5	759	771.6	753.9	760.0		
All Deaths	95% CI	736.4 - 762.8	739.6 - 766.0	717.5 - 743.3	741.2 - 767.2	726.2 - 751.8	770.4 - 796.6	746.1 - 772.0	758.7 - 784.5	741.6 - 766.1	747.8- 772.3	~~~~~	~~~~
Cancer Deaths	Rate per 100,000	187.9	182.2	179.3	175.2	170.3	178.0	168.9	170.8	162	164.2		
	95% CI	181.3 - 194.4	175.8 - 188.6	173.1 - 185.6	169.0 - 181.3	164.3 - 176.3	171.9 - 184.1	163 - 174.9	164.9 - 176.7	156.3 - 167.6	158.5 - 169.8		-
Heart Disease	Rate per 100,000	151.1	149.5	145.9	152.3	147.9	157.3	150	143.5	146.9	142.5		•
Deaths	95% CI	145.3 - 156.9	143.7 - 155.2	140.2 - 151.6	146.5 - 158.0	142.3 - 153.5	151.6 - 163.0	144 - 155.1	138.1 - 148.9	141.6 - 152.3	137.2 - 147.7	~~~~	-
Unintentional	Rate per 100,000	36.5	38.3	40.4	42.6	45.8	53.8	62.4	68	64.7	66.7		•
Injury Deaths	95% CI	33.4 - 39.7	35.1 - 41.6	37.0 - 43.7	39.2 - 46.1	42.2 - 49.4	49.9 - 57.7	58.1 - 66.6	63.6 - 72.5	60.4 - 68.9	62.3 - 71.0	Constanting of the second	-
Chronic Lower Respiratory	Rate per 100,000	47.4	48.4	45.4	49.1	48.1	53.6	47.4	48.7	45.6	48.3		
Disease Deaths	95% CI	44.1 - 50.7	45.1 - 51.7	42.2 - 48.5	45.8 - 52.3	44.9 - 51.3	50.3 - 56.9	44.3 50.5	45.6 - 52.8	42.6 - 48.5	45.3 - 51.3		
Cerebrovascular	Rate per 100,000	34.5	35.8	34.3	33.4	33.2	32.6	34.4	37.5	33.8	31.4		
Disease Deaths	95% CI	31.7 - 37.3	33.0 - 38.6	31.5 - 37.0	30.7 - 36.0	30.6 - 35.9	30.0 - 35.2	31.7 - 37.1	34.7 - 40.2	31.2 - 36.3	29.0 - 33.9	*******	
Alzheimer's	Rate per 100,000	28.5	26.8	23.5	21.6	22.7	28.4	29.6	30.4	28.4	25.9		•
Disease Deaths	95% CI	26.0 - 31.1	24.4 - 29.2	21.2 - 25.7	19.4 - 23.7	20.5 - 24.8	26.0 - 30.8	27.2 - 32.1	27.9 - 32.8	26.0 - 30.7	23.8-28.1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Diabetes Deaths	Rate per 100,000	21.8	20	21.3	20.4	22.4	21.9	23.9	19.7	23.4	23.5		•
Diabetes Deatins	95% CI	19.6 - 24.1	17.9 - 22.1	19.1 - 23.5	18.3 - 22.5	20.2 - 24.6	19.7 - 24.1	21.7 - 26.2	17.7 - 21.7	21.2 - 25.5	21.4 - 25.7	~~~~~	
Influenza and Pneumonia	Rate per 100,000	13.4	16.8	11.6	14	13.7	17.6	12	15.2	15.2	14.7		
Deaths	95% CI	11.7 - 15.1	14.9 - 18.7	10.0 - 13.2	12.3 - 15.8	12.0 - 15.4	15.7 - 19.6	10.4-13.6	13.4 - 16.9	13.5 - 16.9	13.0 - 16.4	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Suicide Deaths	Rate per 100,000	13.2	16.6	14.5	17.4	15.7	16.0	15.9	18.9	18.4	19.4		
Suciae Deatins	95% CI	11.2 - 15.1	14.4 - 18.8	12.5 - 16.6	15.1 - 19.7	13.5 - 17.8	13.9 - 18.2	13.7 - 18.1	16.5 - 21.2	16.1 - 20.7	17.0 - 21.8	•~~~~~	•
Nephritis, Nephrotic	Rate per 100,000	15.8	14.8	14.3	13.6	11.7	11.4	12.4	13	12.5	11.6		
Syndrome and Nephrosis Deaths	95% CI	13.9 - 17.7	12.9 - 16.6	12.5 - 16.1	11.9 - 15.2	10.1 - 13.3	9.8 - 13.0	10.8 - 14	11.4 - 14.5	11.0 - 14.1	10.1 - 13.2	000000000000000000000000000000000000000	

#### = Improving

= Plateaued

95% CI: 95% Confidence Interval of the rate or percent.

Rates are age-adjusted to the U.S. 2000 Standard Population. "Progress" column is based on Joinpoint regression analysis of 1999-2019 WONDER data showing statistically significant trend (improving or worsening), or no significant trend (plateaued) for most recent joinpoint segment.

#### = Worsening

"Trend" column shows trend line for period shown; dark marker indicates the best rate.

Data Source: United States Department of Health and Human Services (US DHHS), Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 1999-2018 on CDC WONDER Online Database, released December 2018. Data are from the Multiple Cause of Death Files, 1999- 2018 as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. Accessed at http://wonder.cdc.gov/ucd-icd10.html 2018 data source: Maine Center for Disease Control and Prevention. Data, Research, and Vital Statistics.

Created January 2021 by Carolyn Bancroft, Maine Center for Disease Control and Prevention building on work by Mary Caron, Finn Teach, and Sara Huston. 🛙

#### **County At-a-Glance**

#### Leading Causes of Death, Maine, 2015-2019 5-year average



<sup>Indicator</sup>	Unit	Androscoserin	4roostoot	Cumberland	rianklin	Hancock	tennebec	thot	lincoh	Maine Total
All Deaths	Rate per 100,000	858.5	792.7	692.1	803.8	713.1	801.3	749.9	679.1	764.9
All Deaths	95% CI	836.9-880.1	768.5-816.8	680.6-703.7	766.1-841.5	687.4-738.8	782.1-820.5	719.7-780.1	648.1-710.1	759.3-770.4
Cancer Deaths	Rate per 100,000	179.7	163.1	149.9	176.4	158.2	178.5	177.7	152.9	168.3
Cancer Deatins	95% CI	169.7-189.7	152.1-174.1	144.4-155.4	158.7-194.1	146.3-170.2	169.5-187.4	163.0-192.4	139.0-166.8	165.7-170.9
Heart Disease Deaths	Rate per 100,000	168.8	155.0	127.5	150.6	136.0	154.2	161.7	139.5	147.6
neart Disease Deatris	95% CI	159.2-178.4	144.6-165.3	122.5-132.4	134.4-166.8	125.0-147.0	145.7-162.6	148.4-175.1	126.1-152.9	145.1-150.0
Unintentional Injury	Rate per 100,000	61.8	49.5	56.9	60.1	60.6	69.3	60.7	58.0	62.9
Deaths	95% CI	55.1-68.4	42.0-57.0	53.1-60.7	48.4-73.8	51.3-70.0	62.6-76.0	50.0-71.4	46.8-71.2	61.0-64.8
Chronic Lower Respiratory Disease	Rate per 100,000	60.2	58.5	37.7	53.2	42.1	51.6	41.5	32.4	48.6
Deaths	95% CI	54.4-66.0	52.3-64.8	35.0-40.4	43.7-62.6	36.0-48.2	46.8-56.4	34.6-48.4	26.3-38.5	47.2-50.0
Cerebrovascular	Rate per 100,000	40.3	33.3	30.4	37.3	33.4	42.8	32.6	38.6	33.9
Disease Deaths	95% CI	35.6-45.1	28.6-38.0	28.0-32.8	29.8-46.2	28.0-38.8	38.4-47.3	26.4-38.8	31.8-45.3	32.7-35.0
Alzheimer's Disease	Rate per 100,000	55.7	24.7	27.8	27.2	25.6	26.2	34.3	22.3	28.5
Deaths	95% CI	50.1-61.2	20.9-28.6	25.5-30.1	20.8-35.0	20.9-30.2	22.8-29.6	28.3-40.3	17.6-27.9	27.4-29.5
Diabetes Deaths	Rate per 100,000	25.2	26.8	17.5	29.2	19.9	27.0	17.4	20.8	22.5
Diabetes Deatins	95% CI	21.4-29.0	22.4-31.2	15.6-19.4	22.3-37.6	15.9-24.6	23.4-30.6	13.2-22.5	15.7-27.1	21.5-23.5
Influenza and	Rate per 100,000	16.8	17.0	12.7	20.7	14.5	13.4	11.9	11.7	14.9
Pneumonia Deaths	95% CI	13.8-19.9	13.7-20.3	11.1-14.3	14.6-28.4	11.1-18.6	11.0-15.9	8.2-16.6	8.3-16.2	14.1-15.7
Suicide Deaths	Rate per 100,000	18.9	16.1	12.4	19.9	16.6	18.6	20.3	21.8	17.7
	95% CI	15.2-22.6	11.9-21.3	10.6-14.2	13.3-28.6	12.1-22.2	15.1-22.2	14.2-28.1	15.0-30.7	16.6-18.7
Nephritis, Nephrotic Syndrome and	Rate per 100,000	9.8	17.3	12.1	17.0	12.6	10.6	8.2	7.8	12.2
Nephrosis Deaths	95% CI	7.6-12.4	14.0-21.1	10.6-13.7	12.0-23.3	9.5-16.4	8.6-13.0	5.5-11.8	4.9-11.8	11.5-12.9

Orange shading indicates county rate is significantly worse than the state rate.

Green shading indicates county rate is significantly better than the state rate.

Rates are age-adjusted to the U.S. 2000 Standard Population.

95% CI: 95% Confidence Interval of the rate.

Data Source: Maine Center for Disease Control and Prevention. Data, Research, and Vital Statistics. February 2022 Created February 2022 by Sarah Wilcox Maine Center for Disease Control and Prevention.

#### **County At-a-Glance**

#### Leading Causes of Death, Maine, 2015-2019 5-year average



<sup>th</sup> alietor	Unir	Otto	Penobscot	Piscata quis	Sea dahoc	Samerse <sub>f</sub>	Waldo	Weshingeron	bork	Naine Total
All Deaths	Rate per 100,000	797.5	823.2	863.2	701.2	878.9	756.1	891.7	726.8	764.9
All Deaths	95% CI	770.3-824.7	805.7-840.8	812.9-913.6	669.1-733.3	847.8-910.0	723.6-788.7	853.0-930.4	712.9-740.8	759.3-770.4
Cancer Deaths	Rate per 100,000	176.0	175.2	206.7	157.2	195.8	164.1	192.9	168.4	168.3
Cancer Deatins	95% CI	163.4-188.6	167.0-183.3	183.3-230.0	142.3-172.2	181.3-210.3	149.0-179.2	175.5-210.3	161.8-175.1	165.7-170.9
Heart Disease Deaths	Rate per 100,000	141.6	158.5	179.9	148.8	194.0	165.6	184.7	129.8	147.6
Healt Disease Deaths	95% CI	130.2-153.0	150.8-166.1	157.8-201.9	134.3-163.3	179.4-208.5	150.5-180.7	167.6-201.8	124.0-135.6	145.1-150.0
Unintentional Injury	Rate per 100,000	62.1	67.3	72.9	43.1	70.8	57.7	100.0	69.5	62.9
Deaths	95% CI	52.7-71.4	61.5-73.2	54.7-95.1	34.4-53.3	60.4-81.3	47.0-68.4	83.1-116.8	64.4-74.6	61.0-64.8
Chronic Lower Respiratory Disease	Rate per 100,000	65.2	54.9	42.4	38.1	72.4	49.7	53.3	44.7	48.6
Deaths	95% CI	57.6-72.7	50.4-59.5	32.7-54.0	30.9-45.3	63.6-81.1	41.6-57.7	44.1-62.5	41.3-48.0	47.2-50.0
Cerebrovascular	Rate per 100,000	29.8	34.0	37.8	42.8	35.1	35.3	32.6	28.2	33.9
Disease Deaths	95% CI	24.4-35.1	30.5-37.6	28.3-49.5	34.9-50.6	28.9-41.3	28.5-43.1	25.8-40.7	25.4-30.9	32.7-35.0
Alzheimer's Disease	Rate per 100,000	26.5	23.0	27.3	18.8	22.1	25.7	19.0	30.6	28.5
Deaths	95% CI	21.7-31.3	20.1-25.9	19.7-36.9	14.0-24.8	17.4-27.6	20.1-32.4	14.1-25.2	27.8-33.4	27.4-29.5
Diabetes Deaths	Rate per 100,000	33.9	24.0	28.6	15.9	24.7	22.2	20.2	21.0	22.5
Diabetes Deatins	95% CI	28.4-39.4	21.0-27.1	20.2-39.2	11.3-21.6	19.9-30.3	16.9-28.6	15.0-26.6	18.6-23.3	21.5-23.5
Influenza and	Rate per 100,000	16.6	19.9	14.8	14.9	13.4	15.3	19.8	13.3	14.9
Pneumonia Deaths	95% CI	12.9-21.0	17.1-22.6	8.7-23.3	10.6-20.2	9.7-18.1	11.1-20.7	14.9-25.9	11.4-15.2	14.1-15.7
Suicide Deaths	Rate per 100,000	19.7	17.4	22.7	24.0	25.1	21.3	23.3	18.4	17.7
	95% CI	14.7-25.7	14.4-20.4	12.7-37.4	17.0-32.7	19.2-32.2	15.3-28.9	15.9-32.8	15.7-21.1	16.6-18.7
Nephritis, Nephrotic Syndrome and	Rate per 100,000	12.5	15.7	9.9	11.3	9.3	10.5	13.9	11.7	12.2
Nephrosis Deaths	95% CI	9.4-16.2	13.3-18.2	5.4-16.7	7.6-16.2	6.5-13.0	6.9-15.3	9.7-19.3	10.0-13.5	11.5-12.9

Orange shading indicates county rate is significantly worse than the state rate.

Green shading indicates county rate is significantly better than the state rate.

Rates are age-adjusted to the U.S. 2000 Standard Population.

95% CI: 95% Confidence Interval of the rate.

Data Source: Maine Center for Disease Control and Prevention. Data, Research, and Vital Statistics. February 2022.

Created February 2022 by Sarah Wilcox, Maine Center for Disease Control and Prevention.

### Age Groups At-a-Glance

Leading Causes of Death, Maine, 2019



Indicator.	Ln <sub>it</sub>	o. tehs	15. 24 hs	25. 39 MS	35. 44 hs	45. 54 MS	55. GA INS	es. ta his	3. <sup>64</sup> 115	ês, <sub>Vrs</sub>	Bar Charr	rear.
All Deaths	Rate per 100,000	44.7	62.4	152.3	236.2	410.9	848.5	1,717.5	4,696.2	14,745.6		2019
Air Deaths	95% CI	35.5-53.9	49.9-75.0	133.4-171.3	212.0-260.5	380.9-441.0	809.2-887.7	1655.1-1780.0	4548.2-4844.2	14336.2-15154.9		2015
Cancer Deaths	Rate per 100,000	*	*	DNR	29.9	97.9	302.0	575.5	1,151.9	1,813.6		2019
Cancer Deaths	95% CI	*	*	2.8-10.7	21.2-38.5	83.2-112.5	278.6-325.5	539.3-611.6	1078.6-1225.2	1670.0-1957.2		2015
Heart Disease Deaths	Rate per 100,000	*	*	DNR	23.4	61.8	138.0	312.3	904.3	3,588.8		2019
Heart Disease Deaths	95% CI	*	*	3.6-12.3	15.7-31.0	50.2-73.5	122.2-153.9	285.6-338.9	839.3-969.2	3386.8-3790.7		2019
Unintentional Inium Deaths	Rate per 100,000	DNR	28.3	81.1	87.0	67.5	54.8	66.2	168.7	630.2		2019
Unintentional Injury Deaths	95% CI	4.8-12.9	19.8-36.7	67.2-94.9	72.2-101.7	55.3-79.7	44.9-64.8	54.0-78.5	140.7-196.8	545.5-714.8		2019
Chronic Lower Respiratory	Rate per 100,000	*	*	*	*	14.9	60.5	151.4	395.7	816.6		2019
Disease Deaths	95% CI	*	*	*	*	9.2-20.6	50.0-71.0	132.9-170.0	352.7-438.7	720.2-912.9		2019
Cerebrovascular Disease	Rate per 100,000	*	*	*	DNR	DNR	20.8	55.0	229.4	860.9		2019
Deaths	95% CI	*	*	*	3.4-12.2	4.4-11.5	14.7-26.9	43.8-66.2	196.7-262.1	762.0-959.9		2019
Al-h-imanla Diana a Daatha	Rate per 100,000	*	*	*	*	*	DNR	23.1	178.4	1,032.5		2010
Alzheimer's Disease Deaths	95% CI	*	*	*	*	*	1.8-7.7	15.8-30.3	149.6-207.3	924.2-1140.9		2019
	Rate per 100,000	*	*	*	*	21.2	38.3	75.1	166.3	245.6		
Diabetes Deaths	95% CI	*	*	*	*	14.4-28.0	29.9-46.6	62.0-88.2	138.4-194.1	192.7-298.4		2019
Influenza and Pneumonia	Rate per 100,000	*	*	*	*	*	11.8	33.7	97.1	363.9		
Deaths	95% CI	*	*	*	*	*	7.2-16.4	25.0-42.5	75.8-118.4	300.0-428.2	_ = =	2019
Culture Dentha	Rate per 100,000	*	17.7	25.2	26.0	33.8	19.9	21.9	24.3	*		2019
Suicide Deaths	95% CI	*	11.1-24.4	17.5-32.9	17.9-34.0	25.2-42.4	13.8-25.9	14.8-28.9	13.6-34.9	*		2019
Nephritis, Nephrotic	Rate per 100,000	*	*	*	*	*	DNR	33.1	91.0	260.4		2010
Syndrome and Nephrosis Deaths	95% CI	*	*	*	*	*	2.1-8.3	24.4-41.8	70.4-111.6	206.0-314.8		2019

Rates are crude rates, deaths per 100,000 population.

DNR: Data not reliable; Using the WONDER system definition, death rates are noted as unreliable when the numerator is 20 or less. \* Counts less than 10 are suppressed

95% CI: 95% Confidence Interval of the rate.

Bar Chart shows age group rates in order listed on table from left to right.

Data Source: Maine Center for Disease Control and Prevention. Data, Research, and Vital Statistics. March 2021.

Created March and November 2021 by Anne Rogers and Sarah Wilcox based on work by Mary Caron, Finn Teach, and Sara Huston, Maine Center for Disease Control and Prevention.

# Section 3: Cause-specific Figures

## Death Rate Trends, Maine, 2000-2019

Please note the different scales in these figures.



Data Sources: CDC WONDER (1999-2017 data). 2018-2019 data: Maine Center for Disease Control and Prevention. Data, Research and Vital Statistics. March 2021.

Rates are deaths per 100,000 population, age-adjusted to the U.S. 2000 standard population.

## Death Rate Trends, Maine, 2000-2019



10.0

5.0

0.0

20120200200200200201201201201201201201

Please note the different scales in these figures.



Data Sources: CDC WONDER (1999-2017 data). 2018-2019 data: Maine Center for Disease Control and Prevention. Data, Research and Vital Statistics. March 2021.

Rates are deaths per 100,000 population, age-adjusted to the U.S. 2000 standard population.

2015

2017

2019

15.0

10.0

5.0

0.0

2001 2003 2005 2007 2009 2011 2013

### Death Rate Trends by Sex, Maine, 2000-2019



Please note the different scales in these figures.

Data Sources: CDC WONDER (1999-2017 data). 2018-2019 data: Maine Center for Disease Control and Prevention. Data, Research, and Vital Statistics. March 2021.

Rates are deaths per 100,000 population, age-adjusted to the U.S. 2000 standard population.

## Death Rate Trends by Sex, Maine, 2000-2019



Please note the different scales in these figures.

Data Sources: CDC WONDER (1999-2017 data). 2018-2019 data: Maine Center for Disease Control and Prevention. Data, Research, and Vital Statistics. March 2021.

200000

,00°,00°

Male

2014,016

Female

2018

Rates are deaths per 100,000 population, age-adjusted to the U.S. 2000 standard population.

## **Technical Notes**

#### Cause of Death and ICD 10 codes

Causes (as presented	ICD-10	Technical Name	Notes
in this report)	Codes		
Cancer	C00-C97	Malignant neoplasms	
Heart Disease	100-109, 111, 113, 120-151	Diseases of the heart	
Chronic Lower	J40-J47	Chronic Lower	Includes chronic obstructive
Respiratory Disease		Respiratory Disease	pulmonary disease and asthma
Unintentional Injury	V01-X59, Y85-86	Unintentional Injury	Includes (but not limited to) unintentional drug overdose, motor vehicle crash deaths, and falls
Cerebrovascular Disease	160-169	Cerebrovascular disease	Also known as stroke.
Alzheimer's Disease	G30, G309	Alzheimer's Disease	
Diabetes	E10-E14	Diabetes mellitus	Includes both Type 1 and Type 2 diabetes deaths.
Influenza and	J09-J18	Influenza and	
Pneumonia		Pneumonia	
Suicide	X60-X84, Y87.0	Intentional self-harm (suicide)	ICD codes related to terrorism are preceded with '*'
Nephritis, Nephrotic	N00-N07,	Nephritis, Nephrotic	Specific disease of the kidneys
Syndrome and	N17-N19,	Syndrome and Nephrosis	
Nephrosis	N25-N27		
Chronic Liver Disease	K70, K73-	Chronic Liver Disease	
and Cirrhosis	K74	and Cirrhosis	
Parkinson's Disease	G20-G21	Parkinson's Disease	
Septicemia	A40-A41	Septicemia	A serious infection of the bloodstream (sometimes called blood poisoning or bacteremia) causing sepsis, a life-threatening immune response.
In Situ Neoplasms, Benign Neoplasms and Neoplasms of Uncertain or Unknown Behavior	D00-D48	In Situ Neoplasms, Benign Neoplasms and Neoplasms of Uncertain or Unknown Behavior	Includes (but not limited to) brain and central nervous system tumors and myelodysplastic syndromes.
Pneumonitis due to Solids and Liquids	169	Pneumonitis due to Solids and Liquids	Pneumonitis (inflammation of lungs) due to inhalation of solids or liquids.

#### Data Sources:

- Mortality data for the US and Maine for years prior to 2018 are from the Centers for Disease Control, National Center for Health Statistics, Underlying Cause of Death. 1999-2019 on CDC WONDER Online Database, released in 2020. Data are from the Multiple Cause of Death Files, 1999-2019, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. Accessed at http://wonder.cdc.gov/ucd-icd10.html in 2020.
- Maine mortality data for 2018 and 2019 are from the Maine CDC, Data, Research, and Vital Statistics.
- Counts and rates for Maine may differ slightly from WONDER due to revisions to death records after final year-end counts were submitted to NCHS/WONDER.

#### **Trend Analysis:**

• The trend analysis referenced in the Key Summary section as well as in the At-a-Glance table is based on Joinpoint regression analysis. Joinpoint is a software developed by CDC that allows one to test trends over a time period, if a trend has changed and the significance of a given change. If a trend has changed, joinpoint allows multiple segments to be fitted to a graph and to test the significance of a given segment (increasing, decreasing or not significantly different from 0). Joinpoint also calculates the Average Annual Percent Change (AAPC) which allows assessment of how much trends change over time. If Joinpoint identified a significant increase or decrease, the progress was noted with red diamond or green square, respectively. If the analysis noted a that the rate had plateaued (not changed from zero) in the latest segment, then the progress was noted as a yellow circle.

#### References

United States Department of Health and Human Services (US DHHS), Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 1999-2019 on CDC WONDER Online Database, released in 2020. Data are from the Multiple Cause of Death Files, 1999- 2019 as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. Accessed at <u>http://wonder.cdc.gov/ucd-icd10.html</u>

Data, Research, and Vital Statistics, Maine Center for Disease Control and Prevention, Department of Health and Human Services.

#### Interactive data resources

For additional information on key risk factors, mortality, and leading causes of death in Maine, please visit the following interactive dashboards:

- Maine Shared Community Health Needs Assessment Interactive Dashboard: <u>https://www.maine.gov/dhhs/mecdc/phdata/MaineCHNA/maine-interactive-health-data.shtml</u>
- Maine Environmental Health Tracking Portal: https://data.mainepublichealth.gov/tracking/home
- Data, Research, and Vital Statistics Dashboards: https://www.maine.gov/dhhs/mecdc/public-health-systems/data-research/
- CDC WONDER: https://wonder.cdc.gov/



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