

**Selected Chronic Disease Indicators,
Kalamazoo County Residents 2019-2021**

CANCER MORTALITY, 2019-2021

CANCER INCIDENCE, 2017-2019

Cause of Death and ICD-10 Codes	Mortality		
	Average Number	Crude Death Rate	Age-adjusted Rate
All Cancer (C00-C97)	481	181.6	156.4
Bladder (C67)	12	4.7	3.7
Breast (C50)	36	26.8	23.1
Cervix (C53)	2	1.5	*
Colon & Rectum (C18-C20, C26.0)	39	14.6	12.8
Lung and Bronchus (C34)	118	44.5	37.8
Melanoma (C43)	5	2.0	*
Oral Cavity & Pharynx (C00-C14)	12	4.4	3.7
Prostate (C61)	22	17.0	17.0

Primary Site and ICD-O-3 Codes	Incidence	
	Average Number	Age-adjusted Rate
All Cancer (C00-C97)	1,286	434.6
Bladder (C67)	54	17.6
Breast (C50)	182	120.0
Cervix (C53)	7	5.7
Colon & Rectum (C18-C20, C26.0)	100	34.3
Lung & Bronchus (C34)	181	59.2
Melanoma (C43)	70	25.7
Oral Cavity & Pharynx (C00-C14)	41	14.2
Prostate (C61)	165	109.9

CARDIOVASCULAR DISEASE MORTALITY, 2019-2021

CARDIOVASCULAR DISEASE HOSPITAL DISCHARGES, 2018-2020

Cause of Death and ICD-10 Codes	Mortality		
	Average Number	Crude Death Rate	Age-adjusted Rate
Major Cardiovascular Diseases (I00-I78)	658	248.4	212.3
Heart Disease (I10-I09, I11, I13, I20-I51)	511	193.0	164.1
Congestive Heart Failure (I50.0)	121	45.7	38.0
Congestive Heart Failure (Any Mention)	325	122.8	102.9
Coronary Heart Disease (I11, I20-I25)	270	101.9	87.0
Stroke (I60-I69)	103	39.0	33.5

Diagnosis and ICD-9 Codes	Discharges			Average Length of Stay
	Average	Crude Rate	Age-adjusted Rate	
Acute Myocardial Infarction (410)	411	27.0	138.5	4.1
Congestive Heart Failure ¹				
All Ages	78	5.1	27.7	5.9
Ages 65 & Over	44	17.2	---	5.1
Stroke (430-434 & 436-438)				
All Ages	636	41.8	210.6	5.9
Ages 65 & Over	411	160.4	---	5.4

OTHER SELECTED CAUSES, MORTALITY, 2019-2021

OTHER SELECTED HOSPITAL DISCHARGES, 2018-2020

Cause of Death and ICD-10 Codes	Mortality		
	Average Number	Crude Death Rate	Age-adjusted Rate
Asthma (J45-J46)	2	0.8	*
Chronic Liver Disease (K70 or K73-K74)	27	10.2	9.6
Chronic Lower Respiratory Diseases-Ages 45 & Over (J40-J47)	129	128.8	---
Diabetes (E10-E14)	76	28.6	25.3
Any Mention ²	206	77.6	67.7
Nephritis, Hydronephrosis & Renal Failure ³	38	14.2	12.5
Any Mention ⁴	217	81.8	12.5

Diagnosis and ICD-9 Codes	Discharges			Average Length of Stay
	Average	Crude Rate	Age-adjusted Rate	
Arthritis --Ages 45 & over ⁵	987	147.2	---	1.5
Asthma (493)	55	3.6	22.4	3.1
Diabetes (250)				
All	461	30.3	172.7	4.6
with Lower Extremity Amputation ⁶	38	2.5	13.2	6.9
Hip Fractures-Ages 65 & over (820)	109	42.7	---	4.7
Osteoporosis Any Mention- Ages 65 & over ⁷	484	188.9	---	---

Notes:

- ¹In 2010, the code grouping for congestive heart failure was changed from ICD-9CM code 428.0 to ICD-9CM codes 402.01, 402.11, 402.91, 428 or 518.4.
- ²Deaths were considered "Diabetes, any-mention", if either the underlying or related-cause of death were coded E10-E14.
- ³Chronic kidney disease with ICD-10 codes N03-N05, N13.0-N13.3, N17-N19, N25-N26, N28.0, and N28.8.
- ⁴Deaths were considered Nephritis, Hydronephrosis & Renal Failure, any mention", if either the underlying or related-cause of death were coded N03-N05, N13.0-N13.3, N17-N19, N25-N26, N28.0, and N28.8.
- ⁵Discharges with a diagnosis of Arthritis, are defined in the [National Arthritis Data Workgroup ICD-9-CM diagnostic codes for arthritis and other rheumatic conditions](#).
- ⁶Discharges with a diagnosis of Diabetes mellitus (ICD-9CM code 250) without mention of traumatic injury (895-897), and with procedures for major or minor lower extremity amputation (84.1).
- ⁷Primary or secondary discharge diagnosis with ICD-9CM codes 733.00 - 733.03, 733.09 and 733.90.

Causes of death are classified in accordance with the [Tenth Revision of the International Classifications of Diseases \(ICD-10\)](#); cancer incidence with [Third Revision of the International Classifications of Diseases \(ICD-O-3\)](#); and hospital discharges with [International Classification of Diseases, Ninth Revision, Clinical Modification \(ICD-9-CM\)](#). Codes are grouped into broader categories for the causes listed in these tables in order to classify the causes of death or incidence of disease. The [Council of State and Territorial Epidemiologists](#) under the sponsorship of the [National Center for Chronic Disease Prevention and Health Promotion](#) defined code groupings in order to classify diseases with substantial public health burden and consistent with Healthy People 2010 goals. See the [Chronic Disease Indicators Home](#) for code-grouping definitions and further indicator statistics.