

IV. Analysis by cause of death

1. Mortality probability by cause of death

Mortality probability by cause of death means the probability that a person of a given age will die from a specific cause of death in the future according to the life tables.

As for leading causes of death in 2022, the mortality probability by malignant neoplasms is the highest with both males and females at age 0, heart diseases (excluding hypertensive heart diseases), senility, cerebrovascular disease, and pneumonia in males, followed by senility, heart disease (excluding hypertensive heart diseases), cerebrovascular disease, and pneumonia in females. At age 65, both males and females were less likely to die from malignant neoplasms than at age 0 and more likely to die from heart disease (excluding hypertensive heart diseases) and even more so at age 75 and 90 is higher.

The total of the mortality probabilities by malignant neoplasms, heart diseases (excluding hypertensive heart diseases) and cerebrovascular diseases was under 50 percent at all the ages for both males and females.

Table 6. Mortality probability by causes of death, 2022

Cause of death	Age 0		Age 65		Age 75		Age 90	
	Male	Female	Male	Female	Male	Female	Male	Female
Malignant neoplasms	26.30	19.34	26.16	17.72	23.49	15.50	14.43	9.02
Heart diseases (excluding hypertensive heart diseases)	14.28	15.79	14.31	16.32	14.50	16.76	15.94	17.61
Cerebrovascular diseases	6.55	6.97	6.48	7.05	6.46	7.11	5.67	6.70
Pneumonia	5.64	4.14	6.13	4.34	6.73	4.52	8.09	4.86
Accidents	3.08	2.38	2.88	2.33	2.89	2.30	2.75	1.92
Traffic accidents(regrouped)	0.29	0.14	0.16	0.10	0.13	0.09	0.05	0.03
Suicide	1.80	0.89	0.53	0.28	0.38	0.18	0.17	0.05
Chronic obstructive pulmonary disease	1.76	0.33	1.93	0.35	2.06	0.34	1.83	0.27
Renal failure	2.09	1.88	2.24	1.96	2.38	2.00	2.67	1.93
Aortic aneurysm and dissection	1.21	1.21	1.14	1.23	1.08	1.17	0.85	0.83
Diseases of liver	1.43	0.77	1.00	0.65	0.72	0.57	0.35	0.28
Diabetes mellitus	1.07	0.86	1.02	0.87	0.94	0.86	0.66	0.66
Hypertensive diseases	0.64	0.90	0.64	0.94	0.63	0.97	0.76	1.12
Tuberculosis	0.13	0.09	0.14	0.09	0.16	0.10	0.20	0.09
COVID-19	3.28	3.03	3.50	3.14	3.76	3.26	4.45	3.67
Senility	7.45	18.68	8.31	19.79	9.73	21.18	17.91	29.51
Malignant neoplasms, heart diseases (excluding hypertensive heart diseases) and cerebrovascular diseases (regrouped)	47.12	42.10	46.95	41.08	44.45	39.37	36.04	33.33

(%)

2. Potential years of life lost

If one cause of death is eliminated, then a person who died from that cause will die from another after the age at death by that cause. As a result, life expectancy increases. This extension of life, called the potential number of years lost, can be regarded as the lost life due to the cause of death and it is possible to estimate how much the cause affects life expectancy.

Looking at the increase in life expectancy when the specific cause of death in 2022 is eliminated, the main cause of death is that both male and female at age 0, 65, and 75 are malignant neoplasms, heart diseases (excluding hypertensive heart diseases), cerebrovascular diseases and pneumonia are in that order. At age 90 of age, heart diseases (excluding hypertensive heart diseases) is the largest in both male and female, then malignant neoplasms, in male pneumonia and cerebrovascular diseases in female, cerebrovascular diseases and pneumonia are in that order.

Potential years of life lost by malignant neoplasms, heart diseases (excluding hypertensive heart diseases) and cerebrovascular diseases was 6.11 years for males and 5.07 years for females at age 0, 4.97 years for males and 4.01 years for females at age 65, 3.70 years for males and 3.22 years for females at age 75, 1.48 years for males and 1.55 years for females at age 90.

Table 7. Potential years of life lost, 2022

Cause of death	Age 0		Age 65		Age 75		Age 90	
	Male	Female	Male	Female	Male	Female	Male	Female
Malignant neoplasms	3.19	2.74	2.62	1.89	1.80	1.29	0.50	0.37
Heart diseases (excluding hypertensive heart diseases)	1.41	1.19	1.09	1.11	0.89	1.04	0.54	0.71
Cerebrovascular diseases	0.66	0.58	0.50	0.50	0.40	0.45	0.18	0.25
Pneumonia	0.38	0.26	0.38	0.26	0.37	0.25	0.26	0.18
Accidents	0.38	0.25	0.21	0.18	0.17	0.15	0.09	0.07
Traffic accidents(regrouped)	0.08	0.03	0.02	0.01	0.01	0.01	0.00	0.00
Suicide	0.60	0.34	0.06	0.04	0.03	0.02	0.01	0.00
Chronic obstructive pulmonary disease	0.13	0.03	0.13	0.03	0.12	0.02	0.06	0.01
Renal failure	0.15	0.13	0.15	0.13	0.13	0.12	0.08	0.07
Aortic aneurysm and dissection	0.13	0.11	0.09	0.10	0.07	0.08	0.03	0.03
Diseases of liver	0.25	0.12	0.10	0.07	0.05	0.05	0.01	0.01
Diabetes mellitus	0.12	0.08	0.09	0.07	0.06	0.06	0.02	0.02
Hypertensive diseases	0.06	0.05	0.05	0.05	0.03	0.05	0.02	0.04
Tuberculosis	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
COVID-19	0.24	0.20	0.22	0.18	0.21	0.17	0.14	0.13
Malignant neoplasms, heart diseases (excluding hypertensive heart diseases) and cerebrovascular diseases	6.11	5.07	4.97	4.01	3.70	3.22	1.48	1.55