

Case Report Open Access

Deaths: Leading Causes for 2011-2012

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Abstract

Introduction: This report presents 2011-2012 data on leading causes of death in the Islamic Republic of Iran by Province.

Methods: Data in this report are based on information from all death certificates filed in the 31 provinces in 2011-2012. Causes of death classified by the International Classification of Diseases, Tenth Revision (ICD-10) are ranked according to the number of deaths assigned to rank able causes Results: In 2011-2012 the 5 leading causes of death were, in rank order: Diseases of the Circulatory System (including Heart Disease); Neoplasms; Accidents (Unintentional Injuries); Diseases of the Respiratory System; Diseases of the Nervous System. First cause of death in all over the country and in each province was Diseases of the Circulatory System (including Heart Disease).

Conclusion: Improving diagnostic methods to diagnose Diseases of the Circulatory System sooner and also improving level of access to advanced cardiac care in all over the country is highly recommended

Keywords: Mortality, Cause of Death, ICD-10

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1. Introduction

Ranking causes of death is a popular method of presenting mortality statistics. Leading cause-of-death data have been published in United States since 1952 (beginning with 1949 mortality data) when official tabulations ranking causes of death were first introduced [1]. Users of this method of presentation should be aware of its inherent limitations. Ranking causes of death is, to some extent, an arbitrary procedure. The rank order of any particular cause of death will depend on the list of causes from which the selection is made and on the rules applied in making the selection. Different cause lists and ranking rules will typically produce different leading causes of death. Recognizing the need for a consistent ranking procedure to be used by state health departments and the National Office of Vital Statistics, in 1951 the Public Health Conference on Records and Statistics recommended that state and federal agencies responsible for identifying diseases of public health importance adopt a uniform ranking procedure using a standard list of causes of death [2]. The procedures implemented in 1952 are essentially the same as those currently used by the Centers for Disease Control and Prevention's (CDC) National Center for Health Statistics (NCHS); however, the cause-of-death lists have been expanded and altered over time with each subsequent revision of the International Classification of Diseases (ICD). Cause-of-death data are based on the underlying cause of death.

Cause-of-death ranking is a useful tool for illustrating the relative burden of cause-specific mortality. However, it should be used with a clear understanding of what the rankings mean. Literally, the rankings denote the most

frequently occurring causes of death among those causes eligible to be ranked. Rankings do not illustrate causespecific mortality risk as depicted by mortality rates. The rank of a specific cause may decline over time even if its mortality rate has not changed, or its rank may remain the same over time even if its mortality rate is on the decline. It is also important to note that rankings do not necessarily denote the causes of death of greatest public health importance. Some causes of death of public health import are excluded from the ranking procedure. For example, Malignant neoplasms of the trachea, bronchus and lung (lung cancer) and Motor vehicle accidents are not rank able causes of death, although they can be identified using the standard mortality tabulation lists. If these causes were included in the current rankings, Motor vehicle accidents would be placed among the 5 leading causes of death. However, it is subsumed in broader rank able category, namely, Accidents (Unintentional Injuries). Although not perfectly suitable in all circumstances, the current framework provides a rank able list of causes of death that has broad appeal and acceptance in the general public health community.

This report presents 2011-2012 data on leading causes of death in the Islamic Republic of Iran by Province.

2. Methods

1. Data

Data in this report are based on information from all death certificates filed in the 31 provinces in 2011-2012 [3]. Death certificates are generally completed by funeral directors, attending physicians, medical examiners, and coroners.

Cause-of-death statistics for 2011-2012 presented in this report are classified in accordance with the 10th revision of the ICD (ICD-10) [4].

2. Procedures for ranking causes of death

The procedures used for ranking causes of death are consistent with the recommendations of the 1951 Public Health Conference on Records and Statistics [2]. Causes are ranked according to the number of deaths assigned to rank able causes. The number of deaths is used as the ranking criterion because it most accurately reflects the frequency of cause-specific mortality. Although crude death rates could technically be used as the ranking criterion because the

population denominator of each rate is constant across all cause-of-death categories, these rates are less than ideal. Crude death rates are typically expressed per 100,000 population and are often rounded to one decimal place, reducing the precision of the ranking criterion. This is especially problematic when ranking causes of death for small population subgroups or geographic areas, because it may be impossible to differentiate the ranks for several causes.

Developed for use with ICD-10, the "List of 358 Selected Causes of Death" [4] is use to select 20 rank able causes (denoted by Greek alphabetic letters) from which the leading cause presented in Table 1.

Table 1. List of 358 Selected Causes of Death

3.T .	Table 1. List of 358 Selected Causes of Death							
Number	Cause of Death							
I	Certain Infectious and Parasitic Diseases							
	Intestinal infectious diseases							
	Cholera College of the College of th							
	Other intestinal infectious diseases							
	Typhoid fever							
	Paratyphoid fevers and other salmonella							
	Shigellosis							
	Other bacterial food-borne intoxications							
	Amebiasis							
	Intestinal infections due to other specified organisms Diarrhea and gastroenteritie of infectious origin							
	Diarrhea and gastroenteritis of infectious origin							
	Tuberculosis							
	Respiratory tuberculosis							
	Other tuberculosis							
	Zoonotic and other bacterial diseases							
	Plague							
	Brucellosis							
	Tetanus							
	Diphtheria							
	Whooping cough							
	Scarlet fever and erysipelas							
	Meningococcal infection							
	Septicemia							
	Other zoonotic and bacterial diseases							
	Infections with a predominately sexual mode of transmission							
	Syphilis Continuous de markilia							
	Cardiovascular syphilis							
	Neurosyphilis Other and unspecified syphilis							
	Gonococcal infection							
	Other infections with a predominately sexual mode of transmission							
	Other infections caused by spirochetes, chlamydia or rickettsia							
	Lyme disease							
	Typhus fever							
	All other infections caused by spirochetes, chlamydia or rickettsia							
	Viral							
	Acute poliomyelitis							
	Rabies							
	Arthropod-borne viral encephalitis							
	Yellow fever							
	Other and unspecified arthropod-borne viral and hemorrhagic fevers							
	Herpesviral (herpes simplex) infections							
	Zoster (herpes zoster							
	Smallpox							
	Measles Debello (Company mondo)							
	Rubella (German measles)							
	Viral hepatitis							
	Human immunodeficiency virus (HIV) disease							
	Human immunodeficiency virus (HIV) disease resulting in infectious and parasitic diseases							
	Human immunodeficiency virus (HIV) disease resulting in malignant neoplasms							
	Human immunodeficiency virus (HIV) disease resulting in other specified diseases							

NT 1	
Number	Cause of Death
	Human immunodeficiency virus (HIV) disease resulting in other conditions
	Unspecified human immunodeficiency virus (HIV) disease
	All other and unspecified viral diseases
	Other and unspecified infectious and parasitic diseases and their sequelae
	Mycoses
	Protozoal diseases
	Malaria
	Leishmaniasis
	Trypanosomiasis
	Pneumocystosis
	Other and unspecified protozoal diseases
	Helminthiases
	Schistosomiasis (bilharziasis
	Other and unspecified helminthiases
	Sequelae of tuberculosis
	Sequelae of poliomyelitis
	All other and unspecified infectious and parasitic diseases and their sequelae
II	Neoplasms
	Malignant neoplasms
	Malignant neoplasms of lip, oral cavity and pharynx
	Of lip
	Of tongue
	Of pharynx
	Of other and unspecified sites within the lip, oral cavity and pharynx
	Malignant neoplasms of digestive organs
	Of esophagus
	Of stomach
	Of small intestine
	Of colon, rectum and anus
	Colon
	Rectosigmoid junction and rectum
	Anus and anal canal
	Of liver and intrahepatic bile ducts
	Liver
	Intrahepatic bile duct carcinoma
	Of gallbladder and extrahepatic bile ducts
	Of pancreas
	Of other and ill-defined digestive organs
	Malignant neoplasms of respiratory and intrathoracic organs
	Of nasal cavity, middle ear and accessory sinuses
	Of larynx
	Of trachea, bronchus and lung
	Of thymus, heart, mediastinum and pleura
	Of other and ill-defined sites in respiratory system and intrathoracic organs
	Malignant neoplasms of bone and articular cartilage
	Melanoma and other malignant neoplasms of skin
	Malignant melanoma of skin
	Other malignant neoplasms of skin
	Malignant neoplasms of mesothelial and soft tissue
	Mesothelioma
	Kaposi's sarcoma
	Of other mesothelial and soft tissue
	Malignant neoplasm of breast
	Malignant neoplasms of female genital organs
	Of vulva and vagina
	Of cervix uteri
	Of corpus uteri and uterus, part unspecified
	Of ovary
	Of other and unspecified female genital organs
	Of placenta
	Malignant neoplasms of male genital organs
	Of prostate
	Of testis
	Of penis and other and unspecified male genital organs
	Malignant neoplasms of urinary tract
	Of kidney and renal pelvis

Number	Cause of Death									
	Of bladder									
	Of other and unspecified sites within the urinary tract									
	Malignant neoplasm of eye and adnexa									
	Malignant neoplasms of meninges, brain and other parts of central nervous system									
	Of brain									
	Of other parts of central nervous system									
	Malignant neoplasms of thyroid and other endocrine glands									
	Other malignant neoplasms of other and unspecified sites									
	Malignant neoplasms of lymphoid, hematopoietic and related tissue									
	Hodgkin's disease									
	Of other lymphoid, hematopoietic and related tissue									
	Non-Hodgkin's lymphoma									
	Of other and unspecified lymphoid, hematopoietic and related tissue									
	Malignant immunoproliferative diseases									
	Multiple myeloma and malignant plasma cell neoplasms									
	Leukemia									
	Lymphoid leukemia									
	Myeloid leukemia									
	Monocytic leukemia									
	Other and unspecified leukemia									
	In situ neoplasms									
	Carcinoma in situ of breast and genitourinary system									
	Carcinoma in situ of other and unspecified sites									
	Benign neoplasms									
	Of female genital organs									
	Of eye, brain and other parts of central nervous system									
	Of other and unspecified sites									
	Neoplasms of uncertain or unknown behavior of specified sites									
	Neoplasm of uncertain or unknown behavior of unspecified sites									
III	Diseases of the Blood and Blood-forming Organs and certain disorders involving the Immunemechanism									
	Anemias									
	Nutritional anemias									
	Hemolytic anemias									
	Aplastic anemias									
	Acute posthemorrhagic and other anemias									
	Coagulation defects, purpura and other hemorrhagic conditions									
	Other diseases of blood and blood-forming organs									
	Certain disorders involving the immune mechanism									
IV	Endocrine, Nutritional and Metabolic Diseases									
	Endocrine diseases									
	Disorders of thyroid gland									
	Diabetes mellitus									
	Disorders of pituitary gland									
	Disorders of adrenal glands									
	Diseases of thymus									
	Other endocrine diseases									
	Nutritional diseases									
	Malnutrition									
	Nutritional marasmus									
	Other and unspecified malnutrition									
	Other nutritional deficiencies									
	Obesity and other hyperalimentation									
	Metabolic disorders									
	Cystic fibrosis									
	Volume depletion, disorders of fluid, electrolyte and acid-base balance									
	Other metabolic disorders									
V	Mental and Behavioral Disorders									
	Organic dementia									
	Other and unspecified organic mental disorders									
	Mental and behavioral disorders due to psychoactive substance use									
	Mental and behavioral disorders due to other psychoactive substance use									
	Schizophrenia, schizotypal and delusional disorders									
	Mood (affective) disorders									
	Neurotic, stress-related and somatoform disorders									
	Mental retardation									
	Other and unspecified mental and behavioral disorders									

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Acute pharyngitis and tonsillitis								
Acute laryngitis and tracheitis		Acute pharyngitis and tonsillitis						
		Acute laryngitis and tracheitis						

Number	Cause of Death									
rumber	Other and unspecified acute upper respiratory infections									
	Other diseases of the respiratory system									
	Influenza									
	Pneumonia									
	Viral pneumonia, not elsewhere classified									
	Bacterial pneumonia Pneumonia due to other or unspecified organisms									
	Other acute lower respiratory infections									
	Acute bronchitis and bronchiolitis									
	Unspecified acute lower respiratory infection									
	Other diseases of upper respiratory tract									
	Chronic lower respiratory diseases									
	Bronchitis, not specified as acute or chronic									
	Chronic bronchitis									
	Emphysema									
	Other chronic obstructive pulmonary disease Asthma									
	Bronchiectasis									
	Lung diseases due to external agents									
	Pneumoconiosis and chemical effects									
	Pneumonitis due to solids and liquids									
	Pneumonitis due to food and vomit									
	Other pneumonitis due to solids and liquids									
	Other lung diseases due to external agents									
	Suppurative and necrotic conditions of lower respiratory tract									
	Pleural effusion and plaque All other diseases of respiratory system									
XI	Diseases of the Digestive System									
711	Diseases of oral cavity, salivary glands and jaws									
	Diseases of other parts of digestive system									
	Diseases of esophagus									
	Peptic ulcer									
	Gastric ulcer									
	Duodenal ulcer									
	Peptic ulcer, site unspecified Gastrojejunal ulcer									
	Gastritis and duodenitis									
	Dyspepsia and other diseases of stomach and duodenum									
	Diseases of appendix									
	Hernia									
	Crohn's disease and ulcerative colitis									
	Vascular disorders and obstruction of intestine without hernia									
	Diverticular disease of intestine Other diseases of intestines and peritoneum									
	Diseases of peritoneum									
	Diseases of liver									
	Alcoholic liver disease									
	Chronic hepatitis, not elsewhere classified									
	Fibrosis and cirrhosis of liver									
	Other diseases of liver									
	Cholelithiasis and other disorders of gallbladder									
	Disorders of biliary tract and pancreas Pancreatitis									
	Other disorders of biliary tract and pancreas									
	All other diseases of digestive system									
XII	Diseases of the Skin and Subcutaneous Tissue									
	Infections of skin and subcutaneous tissue									
VIII	Other and unspecified diseases of skin and subcutaneous tissue									
XIII	Diseases of the Musculoskeletal System and Connective Tissue Rheumatoid arthritis and related inflammatory polyarthropathies									
	Systemic lupus erythematosus									
	Other arthropathies and related disorders									
	Dorsopathies									
	Soft tissue disorders									
	Osteopathies, chondropathies and other disorders of musculoskeletal system and connective tissue									
	Osteoporosis									

Other ustorqualtres, chundropublis and disorders of musculoskehal system and connective itssue Diseases of urinary system Clomerular and renal ubulis interestitial diseases Acute and rapsiliby progressive explutitie syndrome Other and mappedide glomerular diseases Renal inhabito-interstitial diseases Renal inhabitory and inhabitory of the progress Uniteral contrainty system Diseases of male genital organs Planeases of male genital organs Planeases of male genital organs Diseases of inhabitory of the genital organs Inhammatory diseases or fermale genital organs Inhammatory diseases or fermale genital organs Robinstances of fermale genital organs Inhammatory diseases or fermale genital organs Robinstances of fermale genital organ	Number	Cause of Death								
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All other symptoms, signs and abnormal clinical and laboratory findings not elsewhere classified		·								
		· ·								
	XX	External causes of mortality								
Accidents (unintentional injuries)		· · · · · · · · · · · · · · · · · · ·								

Number Cause of Death Transport accidents Railway accidents Motor vehicle accidents Pedestrian involved in collision with motor vehicle Pedalcyclist involved in collision with motor vehicle Motorcyclist involved in any accident except collision with railway train Motor vehicle accident involving collision with railway train Motorcyclist involved in collision with railway train Other motor vehicle accident involving collision with railway train Occupant of motor vehicle involved in collision with other (non-motorized) road vehicle, streetcar, animal or pedestrian Occupant of car, pickup truck or van involved in collision with other motor vehicle Occupant of heavy transport vehicle or bus involved in collision with other motor vehicle Occupant of motor vehicle involved in noncollision accident Occupant of special-use motor vehicle involved in any accident Other and unspecified motor vehicle accidents Streetcar accidents Other and unspecified land transport accidents Water transport accidents Air and space transport accidents Other and unspecified transport accidents and their sequelae Fall on same level Fall from one level to another Unspecified fall Accidental discharge of firearms Accidental explosion Accidental drowning and submersion Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract Other accidental and unspecified threats to breathing Accidental exposure to electric current Accidental exposure to radiation Accidental exposure to smoke, fire and flames Accidental contact with heat and hot substances Lightning Earthquake, volcanic eruption, avalanche, landslide and other earth movements Cataclysmic storm and flood Accidental poisoning and exposure to noxious substances Accidental poisoning by and exposure to drugs and other biological substances Accidental poisoning by and exposure to other and unspecified solid or liquid substances Accidental poisoning by and exposure to other gases and vapors All other and unspecified accidents and their sequelae Intentional self-harm (suicide) Intentional self-poisoning (suicide) by and exposure to drugs and other biological substances Intentional self-poisoning (suicide) by and exposure to other and unspecified solid or liquid substances and their vapors Intentional self-poisoning (suicide) by and exposure to other gases and vapors Intentional self-harm (suicide) by hanging, strangulation and suffocation Intentional self-harm (suicide) by discharge of firearms Intentional self-harm (suicide) by jumping from a high place Intentional self-harm (suicide) by all other and unspecified means and their sequelae Assault (homicide) Assault (homicide) by drugs, biological substances and other and unspecified noxious substances Assault (homicide) by hanging, strangulation and suffocation Assault (homicide) by discharge of firearms Assault (homicide) by sharp object Assault (homicide) by blunt object Assault (homicide) by bodily force Sexual assault (homicide) by bodily force Neglect, abandonment and other maltreatment syndromes Assault (homicide) by all other and unspecified means and their sequelae Event of undetermined intent Poisoning by and exposure to drugs and biological substances, undetermined intent Poisoning by and exposure to other and unspecified solid or liquid substance, undetermined intent Poisoning by and exposure to other gases and vapors, undetermined intent Discharge of firearms, undetermined intent Falling, jumping or pushed from a high place, undetermined intent All other and unspecified events of undetermined intent and their sequelae

Legal intervention

Number	Cause of Death							
	Legal execution							
	Other legal intervention and their sequelae							
	Operations of war and their sequelae							
	Complications of medical and surgical care							
	Drugs, medicaments and biological substances causing adverse effects in therapeutic use, and their sequelae							
	Misadventures to patients during medical and surgical care and their sequelae							
	Other complications of medical and surgical care and their sequelae							

3. Results

In 2011-2012 , the 5 leading causes of death accounted for 65.29% of all deaths occurring in the Islamic Republic of Iran.

The top two causes, Diseases of the Circulatory System (including Heart Disease) and Neoplasms, accounted for 46.62% of all deaths in 2011-2012. Accidents (Unintentional Injuries) ranked third, Diseases of the Respiratory System

fourth and Diseases of the Nervous System fifth; together, these three causes accounted for 18.67% of all deaths in 2011-2012.

Diseases of the Circulatory System (including Heart Disease) were the first cause of death in all provinces. In some provinces, some other causes were among the 5 leading causes such as Certain Infectious and Parasitic Diseases. The detailed data is given in Table 2.

Table 2. Deaths and percentage of total deaths for the 5 leading causes of death, by province: Islamic Republic of Iran, 2011-2012

		1st Cause	2 nd Cause	3 rd Cause	4 th Cause	5 th Cause
Province	All	Number of deaths				
	Causes	Percent of total deaths				
Whole	340990	Diseases of the Circulatory System	Neoplasms	Accidents (Unintentional Injuries)	Diseases of the Respiratory System	Diseases of the Nervous System
Country		130734	28238	26573	23517	13565
Alborz	7381	38.34 Diseases of the Circulatory System	8.28 Diseases of the Nervous System	7.79 Neoplasms	6.9 Diseases of the Respiratory System	3.98 Accidents (Unintentional Injuries)
		2495	926	796	703	156
		33.8	12.55	10.87	9.52	2.11
Ardebil	6270	Diseases of the Circulatory System	Accidents (Unintentional Injuries)	Neoplasms	Diseases of the Respiratory System	Congenital Malformations, Deformations and Chromosomal Abnormalities
		2965	1045	492	338	199
		47.29	16.67	7.85	5.39	3.17
Azarbayjan	13863	Diseases of the Circulatory System	Neoplasms	Accidents (Unintentional Injuries)	Diseases of the Respiratory System	Diseases of the Nervous System
Gharbi		4567	1369	1062	674	410
		32.94	9.88	7.66	4.86	2.96
Azarbayjan Sharghi	21585	Diseases of the Circulatory System	Neoplasms	Accidents (Unintentional Injuries)	Diseases of the Respiratory System	Congenital Malformations, Deformations and Chromosomal Abnormalities
, and the second		7160	1876	1453	1399	960
		33.17	8.69	6.73	6.48	4.45
Booshehr	3805	Diseases of the Circulatory System	Accidents (Unintentional Injuries)	Neoplasms	Diseases of the Respiratory System	Certain Conditions Originating in the Perinatal Period
		1174	384	253	235	142
		30.8	10.09	6.65	6.18	3.73
Chaharmahal Va Bakhtiari	4166	Diseases of the Circulatory System	Diseases of the Respiratory System	Accidents (Unintentional Injuries)	Neoplasms	Pregnancy, Childbirth and the Puerperium
Va Bakhtiari		1685	611	555	238	111
		40.45	14.67	13.32	5.71	2.66
Esfahan	22635	Diseases of the Circulatory System	Neoplasms	Diseases of the Respiratory System	Accidents (Unintentional Injuries)	Diseases of the Nervous System
		9558	1970	1552	1525	1473
		42.23	8.70	6.86	6.74	6.51

Fars	22800	Diseases of the Circulatory System	Congenital Malformations, Deformations and Chromosomal Abnormalities	Accidents (Unintentional Injuries)	Neoplasms	Diseases of the Respiratory System
		9250	2460	2097	1659	1103
		40.57	10.79	9.20	7.28	4.84
Golestan	7814	Diseases of the Circulatory System	Neoplasms	Accidents (Unintentional Injuries)	Diseases of the Respiratory System	Diseases of the Nervous System
		2588	759	738	373	173
		33.12	9.71	9.44	4.77	2.21
Guilan	15052	Diseases of the Circulatory System	Neoplasms	Accidents (Unintentional Injuries)	Diseases of the Respiratory System	Diseases of the Nervous System
		6196	1444	1044	657	441
		41.16	9.59	6.94	4.36	2.93
Hamedan	10051	Diseases of the Circulatory System	Accidents (Unintentional Injuries)	Neoplasms	Diseases of the Respiratory System	Diseases of the Nervous System
		3719	763	670	514	283
		37.00	7.59	6.67	5.11	2.82
Hormozgan	6222	Diseases of the Circulatory System	Accidents (Unintentional Injuries)	Congenital Malformations, Deformations and Chromosomal Abnormalities	Diseases of the Respiratory System	Diseases of the Musculoskeletal System and Connective Tissue
		1864	770	386	314	314
		29.96	12.38	6.2	5.05	5.05
Ilam	2306	Diseases of the Circulatory System	Accidents (Unintentional Injuries)	Neoplasms	Diseases of the Respiratory System	Certain Conditions Originating in the Perinatal Period
		1090	296	207	65	47
		47.27	12.84	8.98	2.82	2.04
Kerman	9124	Diseases of the Circulatory System	Accidents (Unintentional Injuries)	Diseases of the Respiratory System	Neoplasms	Diseases of the Nervous System
101111111	7121	3745	1163	1039	711	233
		41.05	12.75	11.39	7.79	2.55
Kermanshah	10614	Diseases of the Circulatory System	Neoplasms	Accidents (Unintentional Injuries)	Congenital Malformations, Deformations and Chromosomal Abnormalities	Diseases of the Respiratory System
		5293	1000	1000	682	563
		49.87	9.42	9.42	6.43	5.30
Khoozestan	18369	Diseases of the Circulatory System	Accidents (Unintentional Injuries)	Diseases of the Nervous System	Neoplasms	Diseases of the Respiratory System
		6936	1769	1495	1155	846
		37.76	9.63	8.14	6.29	4.61
Khorasan	3409	Diseases of the Circulatory System	Accidents (Unintentional Injuries)	Neoplasms	Diseases of the Respiratory System	Certain Infectious and Parasitic Diseases
Jonoobi		1024	283	259	225	130
Khorasan Razavi	29082	30.04 Diseases of the Circulatory System	8.30 Diseases of the Respiratory System	7.60 Neoplasms	6.60 Accidents (Unintentional Injuries)	3.81 Certain Conditions Originating in the Perinatal Period
	27002	9936	4159	2410	2257	1352
		34.17	14.30	8.29	7.76	4.65
Khorasan Shomali	4095	Diseases of the Circulatory System	Accidents (Unintentional Injuries)	Neoplasms	Congenital Malformations, Deformations and Chromosomal Abnormalities	Diseases of the Respiratory System

		1045	393	332	322	182
		25.52	9.60	8.12	7.86	4.45
Kohgilooye Va Boyrahmad	3158	Diseases of the Circulatory System	Accidents (Unintentional Injuries)	Neoplasms	Congenital Malformations, Deformations and Chromosomal Abnormalities	Certain Conditions Originating in the Perinatal Period
		859	314	220	189	89
Kurdestan	7065	27.2 Diseases of the Circulatory System 3207	9.94 Neoplasms 685	6.97 Accidents (Unintentional Injuries) 609	5.98 Diseases of the Respiratory System 429	2.82 Certain Conditions Originating in the Perinatal Period 145
		45.39	9.70	8.62	6.07	2.05
Lorestan	7989	Diseases of the Circulatory System 3310	Accidents (Unintentional Injuries) 806	Neoplasms	Diseases of the Respiratory System 428	Diseases of the Nervous System
		41.43	10.09	9.04	5.36	3.37
Markazi	7287	Diseases of the Circulatory System 2683	Accidents (Unintentional Injuries)	Neoplasms 532	Diseases of the Respiratory System	Diseases of the Nervous System
		36.82	7.45	7.30	4.88	4.83
Mazandaran	14880	Diseases of the Circulatory System	Neoplasms	Accidents (Unintentional Injuries)	Diseases of the Respiratory System	Diseases of the Nervous System
		6843	1510	1240	5730	293
		45.99 Diseases of the	10.15	8.33 Accidents	3.85 Diseases of the	1.97
Qazvin	5123	Circulatory System	Neoplasms	(Unintentional Injuries)	Respiratory System	Diseases of the Nervous System
		1915	466	442	412	357
		37.38	9.10	8.63	8.04	6.97
Qom	4864	Diseases of the Circulatory System	Neoplasms	Accidents (Unintentional Injuries)	Diseases of the Respiratory System	Certain Infectious and Parasitic Diseases
		1675	461	383	152	111
Semnan	2992	34.44 Diseases of the Circulatory System	9.48 Diseases of the Respiratory System	7.87 Neoplasms	3.13 Accidents (Unintentional Injuries)	2.28 Diseases of the Nervous System
ocimian	2772	1650	237	223	212	80
		55.15	7.90	7.45	7.09	2.67
Sistan Va Baloochestan	11376	Diseases of the Circulatory System	Accidents (Unintentional Injuries)	Diseases of the Respiratory System	Congenital Malformations, Deformations and Chromosomal Abnormalities	Certain Infectious and Parasitic Diseases
		2870	1455	773	642	469
Tehran	48159	25.23 Diseases of the Circulatory System	12.79 Neoplasms	6.80 Diseases of the Respiratory System	5.64 Certain Infectious and Parasitic Diseases	4.12 Diseases of the Nervous System
		20732	4328	3934	3284	3105
		43.05	8.99	8.17	6.82	6.45
Yazd	4748	Diseases of the Circulatory System 1775	Accidents (Unintentional Injuries) 408	Diseases of the Nervous System	Neoplasms	Diseases of the Respiratory System
		37.38	8.59	8.28	8.07	7.98
Zanjan	4706	Diseases of the Circulatory System	Neoplasms	Accidents (Unintentional Injuries)	Diseases of the Respiratory System	Certain Infectious and Parasitic Diseases
		1285	420	416	207	153
		27.31	9.09	8.84	4.40	3.25

4. Discussion

This report presents leading causes of death in the Islamic Republic of Iran by province. Cause-of-death ranking is a popular method of presenting mortality statistics and is a useful tool for illustrating the relative burden of cause-specific mortality, but it must be used cautiously with a clear understanding of the limitations underlying the method.

Consideration should also be given to the effects of random variation on cause-of-death rankings. When the number of events is small (perhaps fewer than 100 deaths), estimates of mortality risk are subject to random fluctuations. Especially when comparing rankings based on small numbers of deaths between groups or over time, it is important to be aware that differences in relative rankings may be attributable to random variability.

Because the rank order of any particular cause of death will depend on the list of causes from which selection is made and on the rules applied in making the selection, a clearly defined, uniform method for ranking causes of death is vital to maintain consistency in the reporting of leading causes by federal and state agencies. The standard method and cause lists described in this and other publications [1, 2, 4] provide this needed structure.

5. Conclusion

Diseases of the Circulatory System (including Heart Disease) is the most cause of death in each province and all over the country, so it is highly recommended to have more attention to these problems, improving diagnostic methods to

diagnose sooner and also improving level of access to advanced cardiac care in all over the country. Although further study is needed to specify these statistics by age, sex and other variables those are important for society health.

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Authors' Contribution

All authors were involved in the study design and result interpretation. All authors confirmed the final draft before submission.

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