

## Supplementary Table 1. List of comorbidities

Category	Category name	Disease
Category I	Certain infectious and parasitic diseases	Arthropod-borne viral fevers and viral hemorrhagic fevers
		Bacterial, viral and other infectious agents
		Certain zoonotic bacterial diseases
		Chronic hepatitis B
		Helminthiases
		Human immunodeficiency virus (HIV) disease
		Infections with a predominantly sexual mode of transmission
		Intestinal infectious diseases
		Mycoses
		Other bacterial diseases
		Other diseases caused by chlamydia
		Other infectious diseases
		Other spirochetal diseases
		Other viral diseases
		Pediculosis, acariasis and other infestations
		Protozoal diseases
		Rickettsioses
		Sequelae of infectious and parasitic diseases
		Tuberculosis
		Viral hepatitis
		Viral infections characterized by skin and mucous membrane lesions
		Viral infections of the central nervous system
Category II	Neoplasms	Benign neoplasms
		In situ neoplasms
		Malignant neoplasm of breast
		Malignant neoplasms of bone and articular cartilage
		Malignant neoplasms of digestive organs
		Malignant neoplasms of eye, brain and other parts of central nervous system
		Malignant neoplasms of female genital organs
		Malignant neoplasms of ill-defined, secondary and unspecified sites
		Malignant neoplasms of independent (primary) multiple sites
		Malignant neoplasms of lip, oral cavity and pharynx
		Malignant neoplasms of male genital organs
		Malignant neoplasms of mesothelial and soft tissue
		Malignant neoplasms of respiratory and intrathoracic organs
		Malignant neoplasms of thyroid and other endocrine glands
		Malignant neoplasms of urinary tract
		Malignant neoplasms, stated or presumed to be primary, of lymphoid, hematopoietic and related tissue
		Melanoma and other malignant neoplasms of skin
		Neoplasms of uncertain or unknown behavior



## Supplementary Table 1. Continued

Category	Category name	Disease
Category III	Disease of the blood and blood-forming	Aplastic and other anemias
	organs and certain disorders involving	Certain disorders involving the immune mechanism
	the immune mechanism	Coagulation defects, purpura and other hemorrhagic conditions
		Hemolytic anemias
		Nutritional anemias
		Other diseases of blood and blood-forming organs
Category IV	Endocrine, nutritional and metabolic	Diabetes mellitus
	disease	Disorders of other endocrine glands
		Disorders of thyroid gland
		Dyslipidemia
		Malnutrition
		Metabolic disorders
		Obesity and other hyperalimentation
		Other disorders of glucose regulation and pancreatic internal secretion
		Other nutritional deficiencies
Category V	Mental and behavioral disorders	Behavioral and emotional disorders with onset usually occurring in childhood and adolescence
		Behavioral syndromes associated with physiological disturbances and physical factors
		Disorders of adult personality and behavior
		Disorders of psychological development
		Mental and behavioral disorders due to psychoactive substance use
		Mental retardation
		Mood (affective) disorders
		Neurotic, stress-related and somatoform disorders
		Organic, including symptomatic, mental disorders
		Schizophrenia, schizotypal and delusional disorders
		Unspecified mental disorder
Category VI	Diseases of the nervous system	Cerebral palsy and other paralytic syndromes
5 7		Demyelinating diseases of the central nervous system
		Diseases of myoneural junction and muscle
		Episodic and paroxysmal disorders
		Extrapyramidal and movement disorders
		Inflammatory diseases of the central nervous system
		Nerve, nerve root and plexus disorders
		Other degenerative diseases of the nervous system
		Other disorders of the nervous system
		Polyneuropathies and other disorders of the peripheral nervous system
		Systemic atrophies primarily affecting the central nervous system
Catagory V/II		
Category VII	Diseases of the eve and adness	Disorders of choroid and retina
Category VII	Diseases of the eye and adnexa	Disorders of choroid and retina Disorders of conjunctiva



## Supplementary Table 1. Continued

Category	Category name	Disease
		Disorders of lens
		Disorders of ocular muscles, binocular movement, accommodation and refraction
		Disorders of optic nerve and visual pathways
		Disorders of sclera, cornea, iris and ciliary body
		Disorders of vitreous body and globe
		Glaucoma
		Other disorders of eye and adnexa
		Visual disturbances and blindness
Category VIII	Diseases of the ear and mastoid process	Diseases of external ear
		Diseases of inner ear
		Diseases of middle ear and mastoid
		Other disorders of ear
Category IX	Diseases of the circulatory system	Acute rheumatic fever
		Cerebrovascular diseases
		Chronic rheumatic heart diseases
		Diseases of arteries, arterioles and capillaries
		Diseases of veins, lymphatic vessels and lymph nodes, not elsewhere classified
		Hypertension
		Hypertensive diseases
		Ischemic heart diseases
		Other and unspecified disorders of the circulatory system
		Other forms of heart disease
		Pulmonary heart disease and diseases of pulmonary circulation
Category X	Diseases of the respiratory system	Acute upper respiratory infections
		Chronic lower respiratory diseases
		Influenza and pneumonia
		Lung diseases due to external agents
		Other acute lower respiratory infections
		Other diseases of pleura
		Other diseases of the respiratory system
		Other respiratory diseases principally affecting the interstitial
		Suppurative and necrotic conditions of lower respiratory tract
Category XI	Diseases of the digestive system	Alcoholic liver disease
		Diseases of appendix
		Diseases of liver
		Diseases of esophagus, stomach and duodenum
		Diseases of oral cavity, salivary glands and jaws
		Diseases of peritoneum
		Disorders of gallbladder, biliary tract and pancreas
		Esophagitis or gastroesophageal



## Supplementary Table 1. Continued

Category	Category name	Disease
		Hernia
		Noninfective enteritis and colitis
		Other diseases of intestines
		Other diseases of the digestive system
		Peptic ulcer or gastrointestinal ulcer
Category XII	Diseases of the skin and subcutaneous	Bullous disorders
	tissue	Dermatitis and eczema
		Disorders of skin appendages
		Infections of the skin and subcutaneous tissue
		Other disorders of the skin and subcutaneous tissue
		Papulosquamous disorders
		Radiation-related disorders of the skin and subcutaneous tissue
		Urticaria and erythema
Category XIII	Diseases of the musculoskeletal system	Arthrosis
	and connective tissue	Chondropathies
		Deforming dorsopathies
		Disorders of bone density and structure
		Disorders of muscles
		Disorders of synovium and tendon
		Infectious arthropathies
		Inflammatory polyarthropathies
		Other disorders of the musculoskeletal system and connective tissue
		Other dorsopathies
		Other joint disorders
		Other osteopathies
		Other soft tissue disorders
		Spondylopathies
		Systemic connective tissue disorders
Category XIV	Diseases of the genitourinary system	Chronic renal disease
		Diseases of male genital organs
		Disorders of breast
		Glomerular diseases
		Inflammatory diseases of female pelvic organs
		Noninflammatory disorders of female genital tract
		Other diseases of urinary system
		Other disorders of kidney and ureter
		Other disorders of the genitourinary system
		Renal failure
		Renal tubulo-interstitial diseases