

Supplementary Table 1. Categories based on the International Classification of Diseases Clinical Classification System

Category	Defenition
1. Acute kidney injury	Acute kidney injury
2. Infection	Tuberculosis, nontuberculous mycobacteria, septicemia, septic shock, other bacterial infections, human immunodeficiency virus infection, hepatitis, herpes zoster infection, other and unspecified viral infection, rickettsioses, intestinal infectious diseases, meningitis, otitis media, infective pericarditis, infective endocarditis, infective myocarditis, sinusitis, pharyngitis, tonsillitis, laryngitis, respiratory tract infection, influenza and pneumonia, peritonsillar abscess, mediastinitis, pyothorax, cellulitis, submandibular abscess, acute appendicitis, diverticulitis, abscess of anal and rectal regions, abscess of intestine, peritonitis, abscess of liver, cholecystitis, cholangitis, inflammatory conditions of jaws, osteomyelitis, infective spondylitis, cystitis, urinary tract infection, pyelonephritis, acute prostatitis, abscess of prostate, prostatic cystitis, inflammatory diseases of female pelvic organs, infective spondylitis, infection of cyst
3. Neoplasms	Cancer of colon, cancer of rectum and anus, cancer of stomach, cancer of liver and intrahepatic bile duct, cancer of pancreas, cancer of other gastrointestinal organs; peritoneum, cancer of bronchus; lung, cancer of larynx, cancer of breast, cancer of uterus and cervix, cancer of uterus, cancer of cervix, cancer of ovary, cancer of prostate, cancer of urinary organs, cancer of bladder, cancer of kidney and renal pelvis, lymphoma, leukemia, multiple myeloma, cancer of head and neck, cancer of bone and connective tissue, cancer of thyroid, malignant neoplasm without specification of site, transcatheter arterial chemoembolization, maintenance chemotherapy or radiotherapy, bone marrow transplantation, pituitary adenoma, meningioma, cancer of neural disease, other specified benign neoplasms
4. Endocrine-nutrition-metabolic-related causes	Thyroid disorders, disease of adrenal gland, diabetes mellitus without complications, diabetes mellitus with complications, hyperglycemia, hypoglycemia, nutritional deficiencies, gout, unspecified protein-calorie malnutrition, other malnutrition, disorders of lipid metabolism, fluid and electrolyte disorders, metabolic acidosis, hyposmolality, hypovolemia, hyperpotassemia, hypopotassemia, obesity, other and unspecified metabolic disease
5. Diseases of the blood and blood-forming organs	Anemia, hemolytic anemia, unspecified coagulation and hemorrhagic disorders, coagulation defects, thrombocytopenia
6. Mental illness	Adjustment disorders, anxiety disorders, depression, delirium, dementia, psychogenic disorders
7. Diseases of the nervous system and sensory organs	Parkinson's disease, tremor, myoclonus, disorders of the autonomic nervous system, facial palsy, paralysis, hemiplegia, encephalopathy, other paralysis epilepsy or convulsions, headache including migraine, eye disorders, cataracts, glaucoma, vitreous hemorrhage, retinal detachments or defects including vascular occlusion, epistaxis, other nose and sense organ disorders, conditions associated with dizziness or vertigo, other ear and sensory organ disorders, disorders of the peripheral nervous system, other central nervous system disorders, other nervous system symptoms and disorders
8. Diseases of the circulatory system	Hypertension, hypertension with complications and secondary hypertension, pulmonary hypertension, hypertensive heart or renal disease, diseases of heart valve disorders, pericardial effusion, cardiomyopathy, constrictive pericarditis, acute myocardial infarction, coronary atherosclerosis and other heart diseases, angina pectoris, unstable angina, pulmonary heart disease, arrhythmia, congestive heart failure, acute cerebrovascular disease, intracranial hemorrhage, occlusion of cerebral arteries, aneurysm, occlusion or stenosis of precerebral arteries, other and ill-defined cerebrovascular disease, transient cerebral ischemia, diseases of arteries or arterioles and capillaries, peripheral and visceral atherosclerosis, peripheral vascular disease, arterial embolism and thrombosis of lower extremity artery, hypotension, diseases of veins and lymphatics, phlebitis and thrombophlebitis, other venous embolism and thrombosis, varicose veins of lower extremities, hemorrhoids, vasculitis
9. Diseases of the respiratory tract	Chronic obstructive pulmonary disease and bronchiectasis, emphysema, chronic airway obstruction not otherwise specified, obstructive chronic bronchitis, other chronic pulmonary disease, asthma, pleurisy, pneumothorax, acute respiratory distress syndrome, respiratory disease, hemoptysis, pleural effusion
10. Diseases of digestive system	Disorders of teeth and jaw, upper gastrointestinal disorders, esophageal disorders, esophagitis and other esophageal disorders, gastroduodenal ulcer, peptic ulcer, gastrojejunal ulcer, gastritis and duodenitis, diverticulum, perforation of intestine, acute gastritis, other specified gastritis, unspecified gastritis and gastroduodenitis, duodenitis, other disorders of stomach and duodenum, other disorders of intestine, cholelithiasis, abdominal hernia, inguinal hernia, paralytic ileus, sigmoid volvulus, other intestinal obstruction, constipation, other biliary tract diseases, liver disease not viral hepatitis, cirrhosis of liver, other and unspecified liver disorders, pancreatic disorders, pancreatitis, gastrointestinal hemorrhage, other gastrointestinal disorders, constipation, dysphagia, irritable bowel syndrome, other and unspecified gastrointestinal disorders, inflammatory bowel disease

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Supplementary Table 1. Continued

Category	Defenition
11. Diseases of the genitourinary system	Diseases of the urinary system, renal sclerosis, calculus of urinary tract, calculus of kidney, calculus of ureter, hydronephrosis, immunotherapy for glomerular disease, sclerotherapy for renal cyst, other and unspecified diseases of kidneys and ureters, other diseases of bladder and urethra, hematuria, retention of urine, other and unspecified genitourinary symptoms Diseases of male genital organs: hyperplasia of prostate, inflammatory conditions of male genital organs, other male genital disorders Diseases of female genital organs: inflammatory diseases of female pelvic organs, prolapse of female genital organs, menstrual disorders, ovarian cyst, menopausal disorders, female infertility, other female genital disorders
12. Complications of pregnancy, childbirth, and the puerperium	Abortion-related disorders, delivery, postabortion complications, pre-eclampsia and eclampsia, other complications of pregnancy
13. Diseases of the musculoskeletal system and connective tissue	Osteoarthritis, spondylosis and intervertebral disc disorders or other back problems, other back problems, spinal stenosis, thoracic or lumbosacral neuritis or radiculitis, rotator cuff tear, osteoporosis, pathological fracture, systemic lupus erythematosus and connective tissue disorders, other connective tissue diseases, other bone disease and musculoskeletal deformities, carpal tunnel syndrome
14. Injuries and poisonings	Trauma-related fractures, traumatic injury, open wounds of extremities, sprains and strains, superficial injury including contusion, burns, complications, complication of device or malfunction of device, poisoning by other medications and drugs, poisoning by nonmedicinal substances
15. Diseases of the skin and subcutaneous tissues	Skin disease including erythematous macule, patch, allergic dermatitis, nail problems, lipoma, rash
16. Symptoms, signs, and ill-defined conditions and factors influencing health status	Syncope, fever of unknown origin, asthenia, lymphadenitis, nausea and vomiting, fatigue, factors influencing health care, rehabilitation care such as fitting of prostheses and adjustment of devices, administrative/social admission, medical examination/evaluation (endoscopy for health check-up, coronary angiography, biopsy, kidney transplantation work up), other screening for suspected conditions