



PHYSICIANS' MANUAL
ON
MEDICAL CERTIFICATION
OF
CAUSE OF DEATH



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PREFACE TO THE FIFTH EDITION

The Medical certification of cause of death (MCCD) scheme under Civil Registration System has been implemented in the States/UTs in a phased manner to provide data on cause of death. However, it has so far been implemented only in certain hospitals, generally in urban areas which are selected by the Chief Registrar of Births & Deaths. Thus, the scheme covers mostly those deaths, which occur in selected medical institutions located in urban areas. The coverage under the scheme in terms of percentage level of medical certification as well as the type of hospitals covered has not been uniform across the States/UTs. Some of the States have notified only the teaching hospitals attached to the medical colleges and specialized hospitals under it, whereas in others, only district hospitals and Primary Health Centers (PHCs) have been brought under its ambit. In March, 2012 instruction have been issued to all States/UTs for the implementation of MCCD Scheme in all medical institutions in the country, i.e. Government, private and non-profit making institutions.

The Chief Registrars of Births & Deaths are demanding copies of the Physicians Manual on Medical Certification of Cause of Death (MCCD) for distribution to medical personnel and their staff associated with the implementation of the MCCD scheme. Hence the fifth edition of the physician's manual has become necessary.

The 5th edition of Physicians Manual on Medical Certification of Cause of Death is the revised version of previous edition. The suggestions received from CBHI and other Offices of the Chief Registrar of Births & Deaths have been incorporated. This manual includes Major Cause Groups, the detail descriptions of ICD-10 and National list for tabulation of Mortality & Morbidity based on the Tenth Revision of International Classification of Diseases (ICD-10). It is hoped that this edition would be helpful in improving the Medical Certification of Cause of Death.

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INTRODUCTION

Mortality statistics form an integral part of the vital statistics system. They are one of the basic components of population growth. Further, the cause specific mortality rates are key indicators of the health trends in the population and are provided on scientific basis by the system of medical certification of cause of death.

The data on cause of death contained in the certificate serve many purposes: they help in assessing the effectiveness of public health programmes and provide a feed-back for future policy and implementation. They are essential for better health planning and management and for deciding priorities of health and medical research programmes.

1.1 Legal Provisions

It is because of this importance that a provision has been made in the Registration of Birth & Deaths Act (RBD), 1969 for certification by a medical practitioner who has attended the deceased during the latter's last illness. There is also an enabling provision in the Act which empowers the State Government to introduce the system of medical certification of cause of death in specified areas taking into consideration the facilities available and other related factors. The relevant sections of the Act are:

Section 10(2)

In any area, the State Government having regard to the facilities available therein in this behalf may require that a certificate as to the cause of death shall be obtained by the Registrar from such person and in such form as may be prescribed.

Section 10(3)

Where the State Government has required under sub-section (2) that a certificate as to the cause of death shall be obtained, in the event of the death of any person who, during his last illness was attended by a medical practitioner, the medical practitioner shall, after the death of that person, forthwith issue without charging any fee, to the person required under this Act to give information concerning the death, a certificate in the prescribed form stating to the best of his knowledge and belief the cause of death; and the certificate shall be received and delivered by such person to the Registrar as the time of giving information concerning the death as required by this Act.

The rules framed by the State Governments on the subject further describe the procedure involved in the final disposal of the certificate as:

The certificate as to the cause of death required under sub-section (3) of Section 10 shall be issued in Form No.4 for institutional deaths and 4A for non- institutional deaths and the Registrar shall, after making necessary entries in the register of births and deaths, forward all such certificates to the Chief Registrar or the officer specified by him in this behalf by the 10th of the month immediately following the month to which the certificate relate.

The Act also incorporates a clause on confidentiality of the information on cause of death available on the registration records. The relevant section of the Act reads as under:

Section 17(1) (b)

Subject to any rules made in this behalf by the State Government, including rules relating to the payment of fees and postal charges, any person may obtain an extract from such register relating to any birth or death:

Provided that no extract relating to any death, issued to any person, shall, disclose the particulars regarding the cause of death as entered in the register.

1.2 Cause of death

A cause of death is disease, abnormality, injury or poisoning that contributed directly or indirectly to death. A death often results from the combined effect of two or more conditions. These conditions may be completely unrelated, arising independently of each other; or they may be casually related to each other, that is, one condition may lead to another, which in turn leads to a third condition and so on. Where there is a sequence, the underlying cause, i.e., the disease or injury which initiated the sequence of events will get selected for the purpose of tabulation.

The underlying cause of death is:

(a) The disease or injury which initiated the train of morbid events leading directly to death;

Or

(b) The circumstances of the accident or violence which produced the fatal injury.

All these morbid conditions or injuries consequent to the underlying cause relating to death are termed as antecedent and immediate cause.

1.3 Form of medical certificate

The standard format of the certificate is incorporated in the rules made by the State Government. The format of the certificate proper (medical part) conforms to the standard prescribed by the World Health Organisation (WHO) and has the following features:

CAUSE OF DEATH	Interval between onset & death approx
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I.

Immediate cause:

State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.

(a).....
due to (or as a consequence of)

Antecedent cause:

Morbid conditions, if any, giving rise to the above cause, stating the underlying conditions last.

(b).....
due to (or as a consequence of)

II.

Other significant conditions contributing to the death, but not related to the diseases or conditions causing it.

(c).....
.....
.....

Beside the medical part, the form also includes some minimum demographic and identification particulars about the deceased. The forms have a detachable portion separated by perforation mark containing information on fact of death. Separate forms have been provided for hospital and non-hospital events which are given in the annexure.

1.4 Physician's responsibility

The physician's primary responsibility is to complete the medical part of the certificate regarding all diseases, morbid conditions or injuries which either resulted in or contributed to death. Causes of death are classified, coded and grouped according to the Tenth revision of the International Classification of Diseases (ICD-10) recommended by WHO. When deaths result from a single condition, such as an acute infectious disease, certification and classification present no difficulty. However, this is not the case always and the problem arises of which one of multiple causes to select as the cause of death. Some of them may be casually related to each other in a sequence. If untimely deaths are to be prevented the chain of events has to be cut, or cure instituted at some intermediate point. The most effective Public Health objective is to prevent the precipitating cause from operating and hence the relevance of the underlying cause. Responsibility is placed on the certifying physician for indicating specifically all the several conditions and the chain of events if a sequence can be identified. The certifier (physician) should record the diseases / conditions in an order leading back to the underlying cause if a sequence can be found and put any other conditions contributing to death separately if not directly forming part of the fatal sequence. The medical part of the certificate should normally be the responsibility of the attending physician and based on his individual assessment. In cases of violent deaths and other medico-legal cases

usually brought to the notice of a medical examiner at the post-mortem stage, the certificate may be filled by the medical examiner on the basis of evidence noticed by him. The fact of death in such cases should, however, be communicated to the local registrar in the prescribed format pending the final filling up and transmission of the medical certificate to the registrar concerned. The information on cause of death is kept confidential and is not indicated on death certificate that may later be issued by the Registrar of Births and Deaths. This safeguard is intended to enable the doctors to bestow sufficient care and attention in writing the certificate so that mortality statistics will reflect the best medical opinion, concerning causes of death.

The various Particulars, other than those of the medical part on cause of death, are also required for reporting the death by the hospital to the registration authority in the prescribed format. The certifier will ensure that all the necessary particulars are given, besides his own statement regarding the chain of events pinpointing the underlying cause of death and then sign the certificate. The detachable portion of form containing only the fact of death without disclosing the cause of death may either be signed by the certifier or the medical officer of the hospital or handed over to the relatives of the deceased. The form of medical certificate of cause of death is to be sent to the local Registrar of Births and Deaths along with the death report in the prescribed format within the prescribed time limit.

2. SPECIFIC INSTRUCTIONS

2.1 Name of the deceased

To be given in full. Do not use initials. Also give name of father (or husband in case of married female) after the name of the deceased, using appellation S/o or D/o or W/o. In case of infants not yet named, write son (or daughter) of, followed by names of mother and father.

2.2 Age

If more than a year old, give age in years last birthday (completed number of years). If under one year, give age in months and days. If under 24 hours, give in hours and minutes.

2.3 Method of certification of cause of death

2.3.1 The medical part of the certificate is designed by the WHO to facilitate reporting the underlying cause of death and to obtain information of the causal and pathological sequence of events leading to death. It consists of two parts, the first relating to the sequence of events leading to death, and the second to other significant conditions that contributed to the death.

2.3.2 This part should be written by the attending physician or a physician having personal knowledge of the case history. The names of the diseases should be written in full and legibly to avoid the risk of their being misread. Abbreviations and short form of disease condition should not be used. He should avoid indefinite or inadequate terms. Inadequate descriptions may put the statistical office in difficulty at the time of classification of the data. Mention of terminal events or mode of dying as the only entry in the statement leaves the certificate incomplete. Similarly, symptomatic remarks will not suffice. A properly completed certificate will show the underlying cause on the lowest used line of part I and the conditions if any, as a consequence thereof will have been entered above it in ascending casual order of sequence.

2.3.3 PART – I OF THE CAUSE OF DEATH STATEMENT

Only one cause is to be entered on each line of Part I. The underlying cause of death should be entered on the lowest line used in this part. The underlying cause of death is the condition that started the sequence of events between normal health and the (direct) immediate cause of death.

Line (a): Immediate cause

The direct or immediate cause of death is reported on line (a). This is the disease, injury or complication that directly preceded death. It can be the sole entry in the statement if only one condition was present at death. There must always be an entry on line (a).

The mode of dying (e.g. heart failure, respiratory failure) should not be stated at all since it is no more than a symptom of the fact that death occurred and provides no useful information.

In the case of a violent death, enter the result of the external cause (e.g. fracture of vault or skull, crushed chest).

Line (b): Due to (or as a consequence of)

If the condition on line (a) was the consequence of another condition, record that in line (b). This condition must be antecedent to the immediate cause of death, both with respect to time and etiological or pathological violence or circumstances of accident is antecedent to an injury entered on line (a) and should be entered on line (b), although the two events are almost simultaneous (e.g., automobile accident, fall from tree).

An antecedent condition might have just prepared the way for the immediate cause of death, by damage to tissues or impairment of function, even after a long interval.

Line (c) :

The condition, if any which gave rise to the antecedent condition on line (b) is to be reported here. The remarks given for line (b) apply here also. If the condition on line (b) is the underlying cause, nothing more be entered on this line. However, if the sequence of events comprises more than three stages, extra line (and entries) may be made in part I.

However, many conditions are involved; write the full sequence, one condition per line, with the most recent condition (immediate cause) at the top, and the earliest (the condition that started the sequence of event between normal health and death) last.

Normally the condition or circumstance on the lowest line used in part I will be taken as the basis for underlying cause statistics, though classification of it may be modified to take account of complications or other conditions entered by special provisions of the ICD.

2.3.4 PART-II OTHER SIGNIFICANT CONDITIONS

Enter, in order of significance, all other diseases or conditions believed to have unfavorably influenced the course of the morbid process and thus contributed to the total outcome but which were not related to the disease or condition directly causing death.

There will be cases where it will be difficult to decide whether a condition relevant to death should be recorded as part of the fatal sequence in part I or as a contributory condition in part II. Conditions in part I should represent a distinct sequence so that each condition may be regarded as being the consequence of the condition entered immediately below it. Where a condition does not seem to fit into such a sequence, consider whether it belongs to part II.

In certifying the causes of death for Part II, any disease, abnormality, injury or late effects of poisoning, believed to have adversely affected the decedent should be reported, including:

- Use of alcohol and/or other substances.
- Smoking history.

- Environmental factors, such as exposure to toxic fumes, history of working in the some specific industry, professional exposure to toxins, specific animals etc.
- Recent pregnancy, if believed to have contributed to the death.
- Late effects of injury, including head injury sequelae
- Surgical information, if applicable.
- Any iatrogenic underlying cause.

2.3.5 INTERVAL BETWEEN ONSET AND DEATH

Space is provided, against each condition recorded on the certificate for the interval between the presumed onset of morbid condition and the date of death. Exact period should be written when it is known; in other cases approximate periods like “from birth”, “several years” or “unknown” should be indicated. This provides a useful check on the sequence of causes as well as useful information about the duration of illness in certain diseases.

2.4 Accidents

If suicide or homicide is ruled out, how the fatal injury occurred should be explained indicating briefly the circumstances or cause of the accident. In case of medico-legal cases, the certificate has to be given by the police authorities. However, the Registrar should be informed of such cases, by the hospital.

2.5 Female death

Information on pregnancy and delivery is needed in case of death of women in the child-bearing age (15 to 49 years) even though the pregnancy may have had nothing to do with the death.

2.6 Ensuring completeness of information

2.6.1 While giving the casual chain of events in the statement of cause of death, a complete case history is not required but, if information is available, enough details may be given to enable proper classification of the underlying cause. The certifier cannot always be certain as to what details are required and therefore, a list giving examples of incomplete descriptions and what additional information are required is included in the annexure for guidance. The terms included in the annexure are those employed usually and are of the following types:-

- (i) A symptom that may arise from different group of diseases.
- (ii) A morbid condition that could result from several types of infection, known or unknown.
- (iii) With connotation of any of several morbid conditions having distinctive categories in the classification list like acute, sub-acute, chronic, simple etc.
- (iv) Mention of a disease which is generally localised, without indicating the organ or part of the body affected.
- (v) A morbid condition that requires for its classification, a knowledge of the circumstances in which it arose.

2.6.2 As a general rule, record diagnoses as precisely as the information permits, incorporating relevant details from histological or autopsy reports. Where an important detail is unknown the fact should be stated.

2.6.3 The following gives the pertinent details required to be spelt out in the medical part of the certificate corresponding to the major cause group of mortality;

1. **Infections:** Acute, sub-acute or chronic, name of the disease and/or infecting organism, the site if localised; mode of transmission, where relevant.
2. **Neoplasms:** The morphological type if known; malignant, benign etc., site of origin of primary growth and sites of secondary growths.
3. **Endocrine disorders:** Nature of disease process or disturbance of function: For thyroid diseases, whether toxic: for diabetes, nature of complication or manifestation in particular site.
4. **Nutritional disorders:** Type of deficiency, etc., and severity.
5. **Blood disorders:** Nature of disease process; type and nature of any deficiency for anemias; whether hereditary (where relevant)
6. **Nervous system disorders:** Disease process; infecting organism (where relevant) whether hereditary (where relevant).
7. **Circulatory diseases:** Nature of disease process; site, if localized; acute or chronic where relevant, specify rheumatic or other etiology for valvular heart conditions; any complications.
8. **Respiratory diseased:** Nature of disease process; acute or chronic; infecting organism, any external cause.
9. **Digestive diseased:** Nature of disease process; site of ulcers, hernias, diverticula, etc. Acute or chronic where relevant, nature of any complication for ulcers, appendicitis, hernias.
10. **Genitourinary disorders:** Acute or chronic, clinical syndrome and pathological lesions; site of calculi, infecting organism and site of infections; nature of complications.
11. **Maternal deaths:** Nature of complication: whether obstruction occurred during labour; timing of death in relation to delivery; for abortions, whether spontaneous or induced, legal or illegal, if induced.
12. **Musculoskeletal disorders:** Nature of disease process, infecting organism, underlying systemic diseases (where relevant); site; complication, whether congenital or acquired for deformities.
13. **Congenital anomalies:** Site and type, complications.
14. **Perinatal deaths :** Condition in fetus or infant; conditions in mother or of placenta, cord or membranes, if believed to have affected the fetus or infant; for deaths associated with immaturity, state length of gestation and/or birth weight; type of birth trauma; and complications, etc.
15. **Injuries:** Type, site, complications.
16. **Poisoning:** Substance involved; whether accidental (if suicide or homicide is ruled out).
17. **Adverse effects of drugs in therapeutic use:** State this fact and name or drug, nature of adverse effect, complications; condition treated.
18. **External cause of accidents:** For transport accidents, state vehicle involved, whether deceased was driver, passenger, etc. Description of accident place of occurrence, for other accidents, specifies circumstances and place of occurrence.
19. **Old age or senility:** This should not be given if a more specific cause is known. If old age was a contributory factor it should be entered in part II only.

3. EXAMPLES OF CERTIFICATION

Some examples of situations drawn from Indian experience utilizing case histories provided by the Safdarjung Hospital, New Delhi; the Directorate of Health Services, Pune; and the examples taken from the Physician's handbook on medical certification of death of the Centre for Disease Control and Prevention, U.S. Department of Health and Human Services are categorized into simple and complicated situations and explained below.

3.1 Simple situations

3.1.1

PART – I	(a) Peritonitis (b) Perforation of Duodenum (c) Duodenal ulcer	2 Days 3 Days 6 months
PART-II	Carcinoma of bronchus	

3.1.2

PART – I	(a) Abscess of hand (b) Incision of hand (c) Tetanus	10 Days
PART-II	.....

3.1.3

PART – I	(a) Toxaemia (b) Severe anaemia of pregnancy (c)	
PART-II	Tuberculosis	

3.1.4

PART – I	(a) Asphyxia (b) Drowning (c)	
PART-II	.....

3.1.5

PART – I	(a) Uraemia (b) Chronic nephritis (c)	
PART-II	.....

3.1.6

PART – I	(a) Uraemia (b) Retention of urine (c) Hypertrophy of prostate	
PART-II	.....

3.1.7

PART – I	(a) Brain Injury (b) Fall at home (c) Chronic alcoholic	
PART-II	.....

3.1.8

PART – I	(a) Fracture of vault of skull (b) Collision between car he was driving and heavy truck on road. (c)	15 Min.
PART-II	.....

3.1.9

PART – I	(a) Carbon monoxide poisoning (b) (c)	Unknown
PART-II	Cancer of stomach	

3.1.10

PART – I	(a) Cardiac tamponade (b) Perforation of heart (c) Gunshot wound to thorax	15 Minutes 20 minutes 20 minutes
PART-II	.....

3.2 Complicated situation

As an aid to write the statement properly, some cases from hospital records are abstracted here to indicate typical problems.

3.2.1 CASE HISTORY

On 03.01.1977, a 60 year old female was admitted with a “strangulated Femoral Hernia” which had started 4 days earlier. She came complaining of abdominal pain and fecal vomits. Apparently, the small intestines were perforated even before. On 4th January, she underwent a release of hernia and the recession of the intestines, with an end to end “Anastomosis”. On 5th January, she started developing signs of “peritonitis”, and following that dies on 14.01.1977.

Statement

PART – I	(a) Peritonitis, acute (b) Perforation of small intestine (c) Strangulated Femoral Hernia	12 days 15 days.
PART-II	.....

Explanation: Clearly, acute peritonitis led directly to death and therefore appears on line (a). Perforation of small intestines gave rise to the immediate cause shown in line (a) and therefore, appears next in line (b). Strangulated Femoral Hernia was the cause of intestinal perforation and was the cause which initiated the chain of events leading to death and this is the underlying cause which is written on line (c).

3.2.2 CASE HISTORY

On 14.01.1976 an old man slipped on same level and fell down, resulting in fractures. After being admitted for care, fractures of the left Ischium and Ilium were reduced. The patient then suffered from Azotemia, general arteriosclerosis, artericltic heart disease and pulmonary emphysema. He developed “Bronchopneumonia” on 15th February and died 6 days later. Autopsy revealed also fractured hip and pelvis, cardiac hypertrophy, chronic fibrous myocarditis and coronary sclerosis.

Statement

PART – I	(a) Bronchopneumonia (b) Fracture of left Ischium and Ilium (c)	6 days 7 days.
PART-II	Arteriosclerotic heart with coronary sclerosis.	

Explanation: Bronchopneumonia is certainly the immediate cause of death. The fracture of left Ischium and Ilium gave Arteriosclerotic Heart Disease with coronary sclerosis were no doubt, significant conditions contributing to death and are therefore given in part II.

3.2.3 CASE HISTORY

On 25.08.1964 a 53 year old male was admitted in hospital. X-ray showed “Adenocarcinoma of the rectum” but no evidence. Syphilis was also noticed and treated. He was discharged from hospital in November 1964, as improved.

On 03.03.1966 he got x-rayed which showed pelvis apparently normal; however there was an unusual shadow to the left of the sacrum. On 19.06.1966, he was re-admitted with recurrent carcinoma of the rectum with invasion of the urinary bladder. He was discharged, unimproved on 27.07.1966.

On 04.01.1967 he was again admitted for the same ailment. Examination showed recurrent carcinoma of the rectum with invasion of the urinary bladder and “Metastases” though out the abdomen, syphilis and decubitus ulcers. Bronchopneumonia developed on 09.01.1967 and the patient died 3 days later.

Statement

PART – I	(a) Bronchopneumonia (b) Metastatic cancer of bladder and abdomen. (c) Adenocarcinoma of rectum	3 days
PART-II	Syphilis	

Explanation: Since the metastatic lesions were the result of the Adeno carcinoma of the rectum, the primary site is recorded as the underlying cause of death.

3.2.4 CASE HISTORY

On February 1st, a 58 year old man presented at a clinic complaining of long duration “haemoptysis” and loss of weight. On examination he was found actually anemic and therefore admitted in hospital. The diagnosis was advanced pulmonary TB, reactivation type with cavitation, perhaps of 8 year duration. The patient also suffered from generalised arteriosclerosis, probably of long duration. He also had moderate varicose veins of the lower extremity. On admission, the patient and acute and massive pulmonary hemorrhage he died that evening.

Statement

PART – I	(a) Pulmonary hemorrhage (b) Advanced pulmonary TB (c)	10 hours 8 years
PART-II	Generalised arteriosclerosis and varicose veins of lower extremity.	

3.2.5 CASE HISTORY

A man of 63 year had been treated for some years for malignant hypertension and developed hypertensive heart disease and chronic renal failure. While seriously ill with the heart condition, he developed acute appendicitis, and the appendix ruptured. Appendicectomy was carried out successfully but the heart condition deteriorated further and he died 2 weeks later.

Statement

PART – I	(a) Congestive heart failure (b) Cardiac hypertrophy (c) Malignant hypertension	2 Weeks Some years
PART-II	Appendicectomy for acute condition and rupture of appendix, hypertensive renal failure.	

3.2.6 CASE HISTORY

A 68 year-old male was admitted to the hospital with progressive right lower quadrant pain of several weeks' duration. The patient had lost approximately 40 pounds, with progressive weakness and malaise. On physical examination, the patient had an enlarged liver span which was four finger breadths below the right costal margin. Rectal examination was normal, and stool was negative for occult blood. Routine laboratory studies were within normal limits. A chest x-ray and barium enema was negative. His EKG showed a right bundle branch block. CT scan showed numerous masses within both lobes of the liver. A needle biopsy of the liver was diagnostic of hepatocellular carcinoma, and the patient was started on chemotherapy. Three months after the diagnosis, the patient developed sharp diminution of liver function as well as a deep venous thrombosis of his left thigh, and he was admitted to the hospital. On his third hospital day, the patient developed a pulmonary embolism and died 30 minutes later.

Statement

PART – I	(a) Pulmonary embolism (b) Deep venous thrombosis, left thigh (c) Acute hepatic failure (d) Hepatocellular carcinoma	30 minutes 3 days 2 days Over 3 months
PART-II	.....

Explanation : Pulmonary embolism led directly to death and therefore, appears on line (a) Deep venous thrombosis , left thigh gave rise to the immediate cause shown in line (a) and therefore, appears next in line (b), Acute hepatic failure was the cause of Deep venous thrombosis, left thigh and therefore, appears next in line (c), Hepatocellular carcinoma was the actual cause which initiated the chain of events leading to death and this is the underlying cause which is written on line (d).

3.2.7 CASE HISTORY

This 75 year-old male was admitted to the hospital complaining of severe chest pain. He had a 10-year history of arteriosclerotic heart disease with EKG findings of myocardial ischemia and several episodes of congestive heart failure controlled by digitalis preparations and diuretics. Five months before this admission, the patient was found to be anemic, with a hematocrit of 17, and to have occult blood in the stool. A barium enema revealed a large polypoid mass in the cecum diagnosed as carcinoma by biopsy.

Because of the patient's cardiac status, he was not considered to be a surgical candidate. Instead he was treated with a 5-week course of radiation therapy and periodic packed red cell transfusions. He completed this course 3 months before this hospital admission. On this admission the EKG was diagnostic of an acute anterior wall myocardial infarction. He expired 2 days later.

Statement

PART – I	(a) Acute myocardial infarction (b) Arteriosclerotic heart disease (c)	2 days 10 days
PART-II	Carcinoma of cecum, congestive heart failure	

Explanation: Acute myocardial infarction, listed in Part 1 line (a) as the immediate cause of death, is a direct consequence of arteriosclerotic heart disease; the underlying cause listed in Part 1 line (b). Carcinoma of cecum is listed in Part II because it caused anemia and weakened the patient, but it did not cause arteriosclerotic heart disease. Congestive heart failure is listed in Part II because it also weakened the patient, and although it was caused by the arteriosclerotic heart disease, it was not part of the casual sequence leading to the acute myocardial infarction.

3.2.8 CASE HISTORY

A 68-year-old female was admitted to the ICU with dyspnea and moderate retrosternal pain of 5-hours duration, which did not respond to nitroglycerin. There was a past history of obesity, noninsulin-dependent diabetes mellitus, hypertension and episodes of nonexertional chest pain, diagnosed as angina pectoris, for 8 years. Over the past 72 hours, she developed a significant elevation of the MB isoenzyme of creatine phosphokinase, confirming an acute myocardial infarction. A Type II second-degree AV block developed and a temporary pacemaker was put in place. She subsequently developed dyspnea with fluid retention and cardiomegaly on chest radiograph. She improved with diuretics. On the seventh hospital day, during ambulation, she suddenly developed chest pain and increased dyspnea. An acute pulmonary embolism was suspected and intravenous heparin was started.

The diagnosis of pulmonary embolism was confirmed by a ventilation/perfusion scan as well as arterial blood gas measurements. One hour later, she became unresponsive and resuscitation efforts were unsuccessful.

Statement

PART – I	(a) Pulmonary embolism (b) Acute myocardial infarction (c) Chronic ischemic heart disease	1 hour 7 days 8 years
PART-II	Non-insulin-dependent diabetes mellitus, obesity, hypertension, congestive heart failure	

Explanation: Non-insulin-dependent diabetes mellitus, obesity, hypertension, congestive heart failure would all be considered factors that contributed to the death. However, they would not be in the direct casual sequence of Part I, so they would be placed in Part II.

3.2.9 CASE HISTORY

A 78-year-old female with a temperature of 102.6F was admitted to the hospital from nursing home. She first became a resident of the nursing home 2 years earlier following a cerebrovascular accident, which left her with a residual left hemiparesis. Over the next year, she became increasingly dependent on other to help with her activities of daily living, eventually requiring an in-dwelling bladder catheter 6 months before the current admission. For the 3 days prior to admission, she was noted to have lost her appetite and to have become increasingly withdrawn. On admission to the hospital her leukocyte count was 19,700, she had pyuria and gram-negative rods were seen on a Gram stain of her urine. Ampicillin and gentamicin were administered intravenously. On the third hospital day, admission blood cultures turned positive for pseudomonas aeruginosa, which was resistant to ampicillin and gentamicin. Antibiotic therapy was changed to ticarcillin clavulanate, to which the organism was sensitive. Despite the antibiotics and intravenous fluid support, the patient’s fever persisted. On the fourth hospital day, she became hypotensive and died.

This case illustrates that additional lines may be added to Part I

Statement

PART – I	(a) Pseudomonas aeruginosa sepsis (b) Pseudomonas aeruginosa urinary tract infection (c) In-dwelling bladder catheter (d) Left hemiparesis (e) Old cerebrovascular accident	days days 6 months 2 years 2 years
Part – II	.....

3.2.10 CASE HISTORY

A 34-year-old male was admitted to the hospital with severe shortness of breath. He had a 9-month history of unintentional weight loss, night sweats and diarrhea. The patient had no history of any medical condition that would cause immunodeficiency. An Elisa test and confirmatory Western Blot test for human immunodeficiency virus (HIV) were positive. T-lymphocyte tests indicated a low T helper-suppressor ratio. A lung biopsy was positive for *Pneumocystis carinii* pneumonia (PCP), indicating a diagnosis of acquired immunodeficiency syndrome (AIDS). The patient's pneumonia responded to pentamidine therapy, and the patient was discharged. The patient had two additional admissions for PCP. Seventeen months after the patient was first discovered to be HIV positive, he again developed PCP but did not respond to therapy. He died 2 weeks later.

Statement

PART – I	(a) <i>Pneumocystis carinii</i> pneumonia (b) Acquired Immunodeficiency Syndrome (c) HIV infection	2 weeks 17 months Over 17 months
PART-II	.....

Explanation: By definition AIDS is due to HIV infection, even though it may seem redundant to specify HIV infection in the causal sequence death, it is desirable to do so. HIV infection and AIDS are not synonymous, and there is a variable clinical course between the time of HIV infection and the onset of AIDS.

3.2.11 CASE HISTORY

A 75-year-old male had a 10-year history of chronic bronchitis associated with smoking two packs of cigarettes a day for more than 40 years. When seen by his physician approximately 2 years prior to his terminal episode, he had moderately reduced FEV and FVC with no response to bronchodilators. During his last year, he required corticosteroids to prevent wheezing and coughing at night, however, he was unable to reduce his smoking to less than one pack of cigarettes per day. When seen 3 months prior to his terminal episode, he had significantly reduced FEV and FVC with no response to bronchodilators. He awoke one evening complaining his wife about coughing and worsening shortness of breath. He was taken to the emergency room where he was found to have an acute exacerbation of obstructive airways disease. He was admitted to the hospital. At the patient's request, no mechanical ventilation was employed, and he died 12 hours later in respiratory arrest.

Statement

PART – I	(a) Acute exacerbation of obstructive airways disease. (b) Chronic bronchitis. (c)	12 hours 10 years
PART-II	Cigarette smoking	

Explanation: In this case, respiratory arrest is considered a mode of dying, and it would not be listed as the Immediate Cause of Death.

3.2.12 CASE HISTORY

A 75-year-old female had a 15- year history of noninsulin-dependent diabetes mellitus, a 13-year history of mild hypertension treated with thiazide diuretics, and an uncomplicated myocardial infarction 6 years prior to the present illness. She was found disoriented in her apartment and brought to the hospital. On admission she was noted to be unresponsive, without focal neurologic signs, and severely dehydrated with a blood pressure of 90/60. Initial laboratory tests disclosed severe hyperglycemia, hyperosmolarity, azotemia and mild ketosis without acidosis. A diagnosis of hyperosmolar nonketotic coma was made.

The patient was vigorously treated with fluids, electrolytes, insulin, and broadspectrum antibiotics, although no source for infection was documented. Within 72 hours, the patient’s hyperosmolar, hyperglycemic state was resolved. However, she remained anuric with progressive azotemia. Attempts at renal dialysis were unsuccessful, and the patient died on the 8th hospital day in severe renal failure.

Statement

PART – I	(a) Acute renal failure (b) Hyperosmolar nonketotic coma (c) Diabetes mellitus, non-insulin-dependent.	5 days 8 days 15 Years
PART-II	Hypertension, previous myocardial infarction	

Explanation: Hypertension and a previous myocardial infarction would both be considered factors that contributed to the death. However, they would not be in the direct causal sequence of Part I, so they would be placed in Part II.

3.2.13 CASE HISTORY

This 53-year-old male was admitted to the hospital following 2 days of intermittent midepigastic and left-sided chest pain. The pain radiated to his left arm and was accompanied by nausea and vomiting. He gave a history that included 2 years of occasional chest discomfort, a near syncopal episode 6 months prior, hypertension, a 30 year history of one-pack-per-day cigarette smoking, congenital blindness, and insulin-dependent diabetes mellitus. He was not to be markedly obese and to have severe hypercholesterolemia.

At the time of admission, his enzyme studies were normal, but the EKG suggested myocardial ischemia. Two days later, he experienced an episode of severe chest pain that did not respond to nitroglycerin and was accompanied by ST-segment elevation. A cardiac catheterization demonstrated severe multivessel coronary artery stenosis. He underwent quadruple coronary artery bypass surgery. Shortly after being taken off the cardiopulmonary bypass machine, he went into cardiac

arrest. As resuscitation was being attempted by open cardiac massage, a rupture developed in his left ventricular wall which resulted in rapid exsanguination and death.

Statement

PART – I	(a) Coronary artery bypass surgery (b) Myocardial infarction (c) Coronary atherosclerosis	Minutes Days Years
PART-II	Insulin-dependent diabetes mellitus, cigarette smoking, hypertension, hypercholesterolemia	

Explanation: Insulin-dependent diabetes mellitus, cigarette smoking, hypertension, and hypercholesterolemia would all be considered factors that contributed to the death. However, they would not be in the direct causal sequence of Part I, so they would be placed in Part II.

3.2.14 CASE HISTORY

A 1,480-gram male infant was born at 32-weeks gestation to a 20-year old primiparous woman. The infant developed respiratory distress syndrome and required mechanical ventilation for 7 days. Despite receiving adequate calories for growth, the infant gained weight poorly and had persistent diarrhea with steatorrhea. The patient had an elevated sweat chloride concentration. On the 37th day after birth, the infant became lethargic and was noted to be edematous. Escherichia coli was cultured from the infant’s cerebral spinal fluid, total serum proteins were reported to be low, and clotting studies were prolonged. The infant died at 45 days of age despite appropriate life-saving efforts. Gross autopsy confirmed the clinical impression of cystic fibrosis.

Statement

PART – I	(a) Escherichia coli meningitis (b) Cystic fibrosis (c)	7 days 45 days
PART-II	Prematurity, malabsorption, respiratory distress syndrome	

Explanation: Prematurity, malabsorption, respiratory distress syndrome would all be considered factors that contributed to the death. However, they would not be in the direct causal sequence of Part I, so they would be placed in Part II.

3.2.15 CASE HISTORY

A 30-year-old, gravida-six, para-five woman with gestational hypertension, reported to the emergency room at 36 weeks into her pregnancy. She had experienced 12 hours of abdominal cramping and vaginal bleeding with the passage of large clots. A presumptive diagnosis of abruption placenta was made. She continued to bleed from her vagina as well as from phlebotomy sites, and she rapidly went into profound shock. No fetal heart sounds were audible. The patient was experiencing disseminated intravascular coagulation. Despite administration of blood and clotting

factors, intravascular pressure could not be maintained. The mother and fetus both died 1 hour after admission. Autopsy findings confirmed the clinical diagnosis.

Statement

PART – I	(a) Disseminated intravascular coagulation (b) Haemorrhage (c) Abruptio placenta	Hour 13 hours Over 13 hours
PART-II	Gestational hypertension	

Explanation: Gestational hypertension would be considered a factor that contributed to the death. However, it would not be in the direct casual sequence of Part I, so they would be placed in Part II.

3.3 Incorrect filling and correct filling of the medial part of the certificate.

The following few illustrative examples of certification will give the Medical Officers an understanding to fill in the causes in Part I and Part II of the Form of Medical Certificate of Cause of Death.

Example 1:

	Incorrect Certificate	Correct Certificate
PART I	(a) Primary Bronchogenic Carcinoma of Rt. Lung (b) Emaciation (c) Metastasis to lymph Nodes and Liver	(a)Emaciation (b)Metastasis to Lymph nodes and liver (c) Bronchogenic Carcinoma of Rt. Lung.
PART II	.....	.....

ILLUSTRATION: In the above mentioned example, the underlying cause of death is Primary Bronchogenic Carcinoma of Rt. Lung because it has given rise to the conditions reported in the Incorrect Certificate. The certificate should have been recorded by the Medical Officer as in the Correct Certificate.

Example 2:

	Incorrect Certificate	Correct Certificate
PART I	(a) Diabetes (b) Gangrene Foot (c) Carcinoma Pancreas and chronic bronchitis	(a) Gangrene Foot (b) Diabetes (c) Carcinoma Pancreas
PART II	.....	Chronic Bronchitis

ILLUSTRATON: The attending Physician should have recorded the conditions as mentioned in the correct certificate keeping in view the reported sequence and unrelated conditions (significant conditions) should have been recorded in Part-II.

Example 3:

	Incorrect Certificate	Correct Certificate
PART I	(a) Retention of urine with Hypertrophy of Prostate with Uremia (b) Cataract (c) Ischaemic Heart Disease	(a)Uremia (b)Retention of Urine (c)Hypertrophy of Prostate
PART II	.....	Cataract, Ischaemic Heart Disease

ILLUSTRATION: In this example, the Medical Officer should have mentioned the train of events in Part-I and other significant conditions in Part-II, as mentioned in the correct certificate.

Example 4:

	Incorrect Certificate	Correct Certificate
PART I	(a) Nephrectomy (b) Edema Face, Foot (c)	(a)Edema Face, foot (b)Embroyomia of Kidney (c).....
PART II	Embryoma of Kidney	.....

ILLUSTRATION: The medical Officer has recorded operative procedure “Nephrectomy” in Part-I and other conditions “Edema Face and Foot” which is due to the disease “Embroyoma of Kidney” stated in Part-II, should have been written according to the sequence and operative procedure should have been recorded in the column made for “Operation Performed”.

Example 5:

	Incorrect Certificate	Correct Certificate
PART I	(a) Polycystic Kidney (b) Renal Failure and Hypertension (c) Ischaemic Heart Disease	(a)Renal failure (b)Hypertension (c)Polycystic Kidney
PART II	.....	Ischaemic Heart Disease

ILLUSTRATION : The certificate should have been got completed by the medical Officer in the correct certificate because Renal Failure, Antecedent direct cause and terminated by the condition mentioned at (c) of Part-I as the underlying cause of death and unrelated cause Intestinal “Ischaemic Heart Disease” in Part-II.

Example 6:

	Incorrect Certificate	Correct Certificate
PART I	(a) Intestinal Obstruction (b) Femoral Hernia (c)	(a)Femoral Hernia with obstruction (b)..... (c)
PART II	.....	.....

ILLUSTRATION: In this example all the conditions recorded by the Medical officer are co-related but it should have been mentioned as in the correct certificate because ICD provides a combined code for these conditions.

Keeping in view the above mentioned examples, with their illustrations, all the Medical Officers are requested mainly to know the contents, as under, Part-I and Part-II of International Form of Medical Certificate of Cause of Death.

“In Part-I is reported cause leading directly to death at line (a) and also the antecedent conditions at line (b) and (c) which gave rise to the cause reported in line (a), the underlying cause being stated last in the sequence of events. However, no entry is necessary in line (b) and (c) if the disease or condition directly leading to death, stated in line (a), describes completely the train of events”.

In Part-II is entered any other significant condition which unfavorably influenced the course of the morbid process and thus contributed to the fatal outcome, but which was not related to the disease or condition directly causing death”.

3.4 Importance of reporting sequence accurately

The following illustrates the importance of accurately stating the sequence of morbid conditions in order to allow selection of the cause considered “underlying” by the attending physician.

A diabetic man who had been under insulin control for many years developed ischemic heart disease and died suddenly from a myocardial infarction. Most people consider there to be a relationship between diabetes and ischemic heart disease but its nature is not yet fully understood. Depending on the role, the doctor considers to have been played in the fatal outcome by one or the other conditions, the following certification are possible.

1. If the doctor considered that the heart condition resulted from the long-standing diabetes, the sequence would be:-

PART – I	(a) Myocardial Infarction (b) Chronic Ischaemic heart disease (c) Diabetes mellitus	1 hour 5 Years 12 Years
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and the statistical office would select diabetes as the underlying cause of death.

2. If the doctor considered that the heart condition developed independently of the diabetes, the certification would be:-

PART – I	(a) Myocardial infarction (b) Chronic ischaemic heart disease	1 hour 5 years
PART-II	Diabetes mellitus	12 years.

and the heart condition would be recorded as the underlying cause.

3. If the man had instead died from some other complication of the diabetes, such as nephropathy, the heart condition playing only a subsidiary part in the death and the doctor being uncertain that it arose from the diabetes at all the certificate should be in the form :-

PART – I	(a) Acute renal failure (b) Nephropathy (c) Diabetes mellitus	1 week 4 years 12 years
PART-II	Chronic ischaemic heart disease	5 years.

The underlying cause is "Diabetic nephropathy"

4. ANNEXURES

EXAMPLES OF INCOMPLETE DESCRIPTIONS OF CAUSE OF DEATH

Term	Additional Information needed for satisfactory coding according to international classification.
Abortion	Spontaneous or induced and reason if induced, period of gestation, Whether sepsis or toxemia.
Abscess	Site and cause (e.g. tuberculous)
Anaemia	Variety if primary; cause if secondary.
Aneurysm	Aortic (abdominal or thoracic), Arterial, arteriovenous, cardiac; arterioscleratic or syphilitic.
Angina	Agranulocytic, diphtheritic, faucium, streptococcal, Vincent's; pectoris
Apoplxy	Site of lesion; recent or late effects
Appendicitis	Acute, chronic or perforated
Arteriosclerosis	Whether hypertensive (benign or malignant) nature of cardiac, cerebral or renal manifestation, if any.
Arteritis	Arteriosclerotic, syphilitic; cerebral, coronary
Arthritis	Acute, gonococcal, gouty, osteoarthritic, tuberculous, due to rheumatic fever Or rheumatoid
Ascites	Cause of the condition
Asphyxia	Cause of the condition
Atheroma	Aorta, artery, valve of heart
Boil	Site
Bright's disease	Acute, sub-acute or chronic
Bronchitis	Acute, chronic; allergic, capillary, emphysematous
Burn	Site(s) and whether by fire, explosion, hot object, liquid chemical or radiation.
Calculus	Site

Term	Additional Information needed for satisfactory coding according to international classification.
Cancer, carcinoma	Site of primary, if known, otherwise sites of secondary, part where it originated If of lip, tongue, mouth, throat, intestine, colon, uterus; histological type, if known
Carbuncle	Site
Cardiac failure	Disease causing the condition
Cardiovascular disease	Whether hypertensive, coronary or renal involvement
Carditis	Endo, myo or per, acute, rheumatic
Caries	Cause, part affected
Cellulitis	Cause, part affected
Child birth	Complication and whether apparent before delivery
Chorea	Rheumatic, Huntington's gravidarum
Cirrhosis of liver	Cause (e.g. alcoholic)
Convulsion, Croup	Cause
Crushing	Whether fracture, internal injury, external cause
Curvature of spine	Cause, congenital or acquired
Cyst	Site, congenital, multiple, hydatid, dermoid retention
Debility	Disease causing the condition
Dermatitis	Variety
Dementia	Disease causing the condition
Diabetes	Complication or independent disease, causing death (particular care should be taken to differentiate between diabetes as the underlying cause and as a contributory condition)
Diarrhoea	Cause
Dysentery	Bacterial, Amoebic or other protozoal

Term	Additional Information needed for satisfactory coding according to international classification.
Eclampsia	Cause and whether apparent before delivery
Embolism	Site and cause; associated child-birth or abortion; if following operation; state Condition for which operation was performed.
Encephalitis	Acute infectious, late effect of infectious; post vaccinal, post-exenthematous, idiopathic, meningococcal, supportive or tuberculous.
Endocarditis	Acute or chronic; arteriosclerotic, hypertensive, rheumatic or other, if rheumatic, whether rheumatic fever was present at death.
Endometritis	Whether puerperal infection
Fits	Apoplectic, epileptic, eclampsia or hysteria
Fracture	Bone; part of skull or lemur; compound; external cause
Gangrene	Site and cause (diabetic, gas bacillus, senile)
Gestritis	Cause
Glioma	Variety if known; site
Goitre	Simple or toxic; diffuse or nodular
Haematemesis	Disease causing the condition
Haemoptysis	Whether tuberculous
Haemorrhage	Site and cause
Hemiplegia	Cause and duration
Hepatitis	Acute infective, chronic, alcoholic of new born of pregnancy, puerperal, post-immunization, post-transfusion.
Hydrocephalus	Congenital, tuberculous or other cause
Hypertension	Benign or malignant, whether associated arteriosclerosis, cerebrovascular, Cardiacor renal manifestation or pregnancy.
Immaturity	Cause; gestation period, birth weight; associated abnormality or disease, if any.

Term	Additional Information needed for satisfactory coding according to international classification.
Influenza	Complications, if any
Injury	Nature of injuries and parts of body injured whether accident, suicide, homicide, war injury; place and circumstances of accident
Insanity	Form of mental disorder, direct cause of death, underlying congenital condition, cerebral disease, arteriosclerosis, syphilis
Jaundice	Catarrhal, epidemic, haematogenous, obstructive, toxic , cause of obstruction or toxæmia, if any, and whether occurring during pregnancy or the Puerperium of following immunization or transfusion. Avoid the term "malignant" jaundice.
Laryngitis	Acute, chronic or tuberculous
Leukaemia	Lymphatic, myeloid, monocytic; acute or chronic
Malaria	Benign, tertian, malignant tertian, quartan, ovale black water fever
Malformation	Congenital or acquired, type and organ involved
Malnutrition	Congenital or due to inadequate diet, disease or lack of care
Marasmus	Cause
Myocarditis	Acute rheumatic, acute non-rheumatic chronic rheumatic, other chronic (but avoid using chronic "Myocarditis" to describe degeneration of the myocardium)
Neoplasm	Benign or malignant; type and location; if malignant, see cancer
Nephritis	Acute or sub-acute with oedema; chronic; Infective or toxic; cause if known. Associated hypertension, arteriosclerosis, heart disease or pregnancy
Neuritis	Location; cause (e.g. alcohol, lead, rheumatism)
Paraplegia	Spastic due to birth injury, due to cerebral, lesion; due to spinal lesion
Pneumonia	Broncho; lobar, atypical, chronic interstitial hypostatic, influenza, neonatal, tuberculous following measles
Pneumothorax	Cause of the condition

Term	Additional Information needed for satisfactory coding according to international classification.
Rheumatic fever	Distinguish heart affections with active rheumatic fever at death from old heart lesions left by rheumatic fever
Rickets	Active, late effects (e.g. genuvalgum) foetal, renal or scurvy
Salpingitis	Acute chronic, gonococcal, tuberculous, post-abortive, puerperal
Septicemia	Cause and site if localized
Spondylitis	Ankylosing; deformans, sacro-iliac, genococcal, tuberculous
Suffocation	Cause e.g. bedclothes, inhaling food, foreign body or smoke, chemical, mechanical, submersion, during birth
Syphilis	Congenital, early or late, organ affected
Tetanus	Mode of infection if known, e.g. slight injury, major injury, puerperal
Tuberculosis	Organs affected including pleura and parts of respiratory system
Ulcers	Site and cause, whether perforated
Uraemia	Cause, if known- e.g. acute, sub-acute, or chronic, nephritis, associated Pregnancy or child-birth.

For Hospital Events

FORM NO. 4
(See Rule 7)

MEDICAL CERTIFICATE OF CAUSE OF DEATH
(Hospital In-patients. Not to be used for still births)
To be sent to Registrar along with Form No. 2 (Death Report)

Name of the Hospital

I hereby certify that the person whose particulars are given below died in the hospital in Ward No..... On AtAM/PM

NAME OF DECEASED					For use of Statistical Office
Sex	Age at Death				
	If 1 year or more, age in years	If less than 1 year, age in month	If less than one month, age in days	If less than one day, age in hours	
1. Male 2. Female					
CAUSE OF DEATH					Interval between onset and death approx.
I Immediate cause State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.			(a) due to (or as a consequences of)		
Antecedent cause Morbid conditions, if any, giving rise to the above cause, stating underlying conditions last			(b) due to (or as a consequences of)		
II Other significant conditions contributing to the death but not related to the disease or condition causing it			(c)		

Manner of Death

How did the injury occur?

1. Natural 2. Accident 3. Suicide 4. Homicide
5. Pending investigation

If deceased was a female, was pregnancy the death associated with? 1. Yes 2. No
If yes, was there a delivery? 1. Yes 2. No

Name and signature of the Medical Attendant certifying the cause of death

Date of verification

(To be detached and handed over to the relative of the deceased)

Certified that Shri/Smt/Kum..... S/W/D of Shri

R/O was admitted to this hospital on
and expired on

Doctor.....
(Medical Superintendent &
Name of Hospital)

For Non-Hospital Events

FORM NO. 4A
(See Rule 7)

MEDICAL CERTIFICATE OF CAUSE OF DEATH
(For non-institutional deaths. Not to be used for still births)
To be sent to Registrar along with Form No. 2 (Death Report)

I hereby certify that the deceased Shri/Smt/Km..... son/wife/daughter of resident of was under my treatment from to and he/she died on atA.M./P.M.

NAME OF DECEASED				For use of Statistical Office
Sex	Age at Death			
	If 1 year or more, age in years	If less than 1 year, age in month	If less than one month, age in days	If less than one day, age in hours
3. Male				
4. Female				
<p align="center">CAUSE OF DEATH</p> <p>I Immediate cause State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</p> <p>Antecedent cause Morbid conditions, if any, giving rise to the above cause, stating underlying conditions last</p> <p>(a) due to (or as a consequences of)</p> <p>(b) due to (or as a consequences of)</p> <p>(c)</p> <p>II Other significant conditions contributing to the death but not related to the disease or condition causing it</p>				Interval between onset and death approx.

If deceased was a female, was pregnancy the death associated with? 1. Yes 2. No
If yes, was there a delivery? 1. Yes 2. No

Name and signature of the Medical Practitioner certifying the cause of death

Date of verification

(To be detached and handed over to the relative of the deceased)

Certified that Shri/Smt/Kum..... S/W/D of Shri

R/O was under my treatment from to and he/she expired on at A.M./P.M.

Doctor
Signature and address of Medical Practitioner/
Medical attendant with Registration No.

Major Groups and the description of ICD-10 Codes

The classification of diseases may be defined as a system of categories to which morbid entities are assigned according to established criteria. The Tenth Revision of International Classification of Diseases (ICD-10) is a single coded list of three-character categories, each of which can be further divided into up to ten four-character subcategories. In place of the purely numeric coding system of ICD-9, ICD-10 uses alphanumeric code with a letter in the first position and a number in the second, third and fourth positions; the fourth character follows a decimal point. The code numbers can range from A00.0 to Z99.9. The letter U is not used and is kept blank for use in future. Codes U00-U49 is kept reserved to be used for the provisional assignment of new diseases of uncertain etiology. Codes U50-U99 may be used in research, e.g. when testing an alternative sub-classification for a special project.

2. The National list for tabulation of Morbidity and Mortality based on the Ninth Revision of ICD-9, 1975 was adopted in MCCD from 1980 to 1998. Subsequently, the World Health Organization (WHO) brought out 10th Revision of International Classification of Diseases (ICD) and the National List for tabulation of Morbidity and Mortality data, based on ICD-10 has been finalized in consultation with the states to meet their requirements and has been adopted from 1999 onward for MCCD Report. The list based on ICD-10 comprises of 20 major Groups, 69 categories and 193 sub-categories of causes as compared to 18 major groups including supplementary classification of Injury & poisoning, 66 categories and 194 sub-categories of causes (includes few single causes) of national list based on ICD-9. Chapters, Blocks of three-character categories and group of three/four-character categories of ICD-10 have been considered as Major Groups, Categories and sub-categories respectively in the national list.

3. As per the recommendations of the ICD-10, data on "Medical Certification of Cause of Death" have been tabulated for a total of 69 categories of causes under Major Groups I to XX of National List including External Causes of morbidity and mortality.

National List based on ICD-10

Major Groups I to XIX:

1. Categories-58 (Group of three-character categories)
2. Sub-categories-177 (Group of 3/4-character categories and 3/4 -character single category)

&

Major Group XX: External Causes of Morbidity & Mortality

3. Categories-11 (Group of three-character categories)
4. Sub-categories-16 (Group of 3/4-character categories and 3/4 -character single category)

The descriptions for all Major Groups of the National list based on ICD-10 are as under:

Major Cause Groups	Description and ICD codes
I	Certain Infectious and parasitic diseases (A00-B99)
II	Neoplasms (C00-D48)
III	Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism (D50-D89)
IV	Endocrine, nutritional and metabolic diseases (E00-E89)
V	Mental and behavioural disorders (F01-F99)
VI	Diseases of the nervous system (G00-G98)
VII	Diseases of the eye and Adnexa (H00-H59)
VIII	Diseases of the ear and mastoid process (H60-H95)
IX	Diseases of the circulatory system (I00-I99)
X	Diseases of the respiratory system (J00-J98)
XI	Diseases of the digestive system (K00-K92)
XII	Diseases of the skin and subcutaneous tissue (L00-L98)
XIII	Diseases of the musculoskeletal system and connective tissue (M00-M99)
XIV	Diseases of the genitourinary system (N00-N99)
XV	Pregnancy, childbirth and the puerperium (O00-O99)
XVI	Certain conditions originating in the perinatal period (P00-P96)
XVII	Congenital malformation, deformation and chromosomal abnormalities (Q00-Q99)
XVIII	Symptoms, signs and abnormal clinical and laboratory findings, n.e.c. (R00-R99)
XIX	Injury, poisoning and certain other consequences of external causes (S00-T98)
XX	External causes of morbidity and mortality (V01-Y89)
XXI*	Factors influencing health status and contact with health services (Z00-Z99)

*: Not in use in India.

List of Three Character Categories

Chapter I

Certain infectious and parasitic diseases (A00-B99)

Intestinal infectious diseases (A00-A09)

- A00 Cholera
- A01 Typhoid and paratyphoid fevers
- A02 Other salmonella infections
- A03 Shigellosis
- A04 Other bacterial intestinal infections
- A05 Other bacterial foodborne intoxications
- A06 Amoebiasis
- A07 Other protozoal intestinal diseases
- A08 Viral and other specified intestinal infections
- A09 Diarrhoea and gastroenteritis of presumed infectious origin

Tuberculosis (A15-A19)

- A15 Respiratory tuberculosis, bacteriologically and histologically confirmed
- A16 Respiratory tuberculosis, not confirmed bacteriologically or histologically
- A17† Tuberculosis of nervous system
- A18 Tuberculosis of other organs
- A19 Miliary tuberculosis

Certain zoonotic bacterial diseases (A20-A28)

- A20 Plague
- A21 Tularaemia
- A22 Anthrax
- A23 Brucellosis
- A24 Glanders and melioidosis
- A25 Rat-bite fevers
- A26 Erysipeloid
- A27 Leptospirosis
- A28 Other zoonotic bacterial diseases, not elsewhere classified

Other bacterial diseases (A30-A49)

- A30 Leprosy [Hansen's disease]
- A31 Infection due to other mycobacteria
- A32 Listeriosis
- A33 Tetanus neonatorum
- A34 Obstetrical tetanus
- A35 Other tetanus
- A36 Diphtheria
- A37 Whooping cough
- A38 Scarlet fever
- A39 Meningococcal infection
- A40 Streptococcal septicaemia
- A41 Other septicaemia
- A42 Actinomycosis
- A43 Nocardiosis
- A44 Bartonellosis
- A46 Erysipelas
- A48 Other bacterial diseases, not elsewhere classified
- A49 Bacterial infection of unspecified site

Infections with a predominantly sexual mode of transmission (A50-A64)

- A50 Congenital syphilis
- A51 Early syphilis
- A52 Late syphilis
- A53 Other and unspecified syphilis
- A54 Gonococcal infection
- A55 Chlamydial lymphogranuloma (venereum)
- A56 Other sexually transmitted chlamydial diseases
- A57 Chancroid
- A58 Granuloma inguinale
- A59 Trichomoniasis
- A60 Anogenital herpesviral [herpes simplex] infection
- A63 Other predominantly sexually transmitted diseases, not elsewhere classified
- A64 Unspecified sexually transmitted disease

Other spirochaetal diseases (A65-A69)

- A65 Nonvenereal syphilis
- A66 Yaws
- A67 Pinta [carate]
- A68 Relapsing fevers
- A69 Other spirochaetal infections

Other diseases caused by chlamydiae (A70-A74)

- A70 **Chlamydia psittaci** infection
- A71 Trachoma
- A74 Other diseases caused by chlamydiae

Rickettsioses (A75-A79)

- A75 Typhus fever
- A77 Spotted fever [tick-borne rickettsioses]
- A78 Q fever
- A79 Other rickettsioses

Viral infections of the central nervous system (A80-A89)

- A80 Acute poliomyelitis
- A81 Atypical virus infections of central nervous system
- A82 Rabies
- A83 Mosquito-borne viral encephalitis
- A84 Tick-borne viral encephalitis
- A85 Other viral encephalitis, not elsewhere classified
- A86 Unspecified viral encephalitis
- A87 Viral meningitis
- A88 Other viral infections of central nervous system, not elsewhere classified
- A89 Unspecified viral infection of central nervous system

Arthropod-borne viral fevers and viral haemorrhagic fevers (A90-A99)

- A90 Dengue fever [classical dengue]
- A91 Dengue haemorrhagic fever
- A92 Other mosquito-borne viral fevers
- A93 Other arthropod-borne viral fevers, not elsewhere classified
- A94 Unspecified arthropod-borne viral fever
- A95 Yellow fever
- A96 Arenaviral haemorrhagic fever

- A98 Other viral haemorrhagic fevers, not elsewhere classified
- A99 Unspecified viral haemorrhagic fever

Viral infections characterized by skin and mucous membrane lesions (B00-B09)

- B00 Herpesviral [herpes simplex] infections
- B01 Varicella [chickenpox]
- B02 Zoster [herpes zoster]
- B03 Smallpox
- B04 Monkeypox
- B05 Measles
- B06 Rubella [German measles]
- B07 Viral warts
- B08 Other viral infections characterized by skin and mucous membrane lesions, not elsewhere classified
- B09 Unspecified viral infection characterized by skin and mucous membrane lesions

Viral hepatitis (B15-B19)

- B15 Acute hepatitis A
- B16 Acute hepatitis B
- B17 Other acute viral hepatitis
- B18 Chronic viral hepatitis
- B19 Unspecified viral hepatitis

Human immunodeficiency virus [HIV] disease (B20-B24)

- B20 Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases
- B21 Human immunodeficiency virus [HIV] disease resulting in malignant neoplasms
- B22 Human immunodeficiency virus [HIV] disease resulting in other specified diseases
- B23 Human immunodeficiency virus [HIV] disease resulting in other conditions
- B24 Unspecified human immunodeficiency virus [HIV] disease

Other viral diseases (B25-B34)

- B25 Cytomegaloviral disease
- B26 Mumps
- B27 Infectious mononucleosis
- B30 Viral conjunctivitis
- B33 Other viral diseases, not elsewhere classified
- B34 Viral infection of unspecified site

Mycoses (B35-B49)

- B35 Dermatophytosis
- B36 Other superficial mycoses
- B37 Candidiasis
- B38 Coccidioidomycosis
- B39 Histoplasmosis
- B40 Blastomycosis
- B41 Paracoccidioidomycosis
- B42 Sporotrichosis
- B43 Chromomycosis and phaeomycotic abscess
- B44 Aspergillosis
- B45 Cryptococcosis
- B46 Zygomycosis
- B47 Mycetoma

- B48 Other mycoses, not elsewhere classified
- B49 Unspecified mycosis

Protozoal diseases (B50-B64)

- B50 *Plasmodium falciparum* malaria
- B51 *Plasmodium vivax* malaria
- B52 *Plasmodium malariae* malaria
- B53 Other parasitologically confirmed malaria
- B54 Unspecified malaria
- B55 Leishmaniasis
- B56 African trypanosomiasis
- B57 Chagas' disease
- B58 Toxoplasmosis
- B59† Pneumocystosis
- B60 Other protozoal diseases, not elsewhere classified
- B64 Unspecified protozoal disease

Helminthiases (B65-B83)

- B65 Schistosomiasis [bilharziasis]
- B66 Other fluke infections
- B67 Echinococcosis
- B68 Taeniasis
- B69 Cysticercosis
- B70 Diphyllbothriasis and sparganosis
- B71 Other cestode infections
- B72 Dracunculiasis
- B73 Onchocerciasis
- B74 Filariasis
- B75 Trichinellosis
- B76 Hookworm diseases
- B77 Ascariasis
- B78 Strongyloidiasis
- B79 Trichuriasis
- B80 Enterobiasis
- B81 Other intestinal helminthiases, not elsewhere classified
- B82 Unspecified intestinal parasitism
- B83 Other helminthiases

Pediculosis, acariasis and other infestations (B85-B89)

- B85 Pediculosis and phthiriasis
- B86 Scabies
- B87 Myiasis
- B88 Other infestations
- B89 Unspecified parasitic disease

Sequelae of infectious and parasitic diseases (B90-B94)

- B90 Sequelae of tuberculosis
- B91 Sequelae of poliomyelitis
- B92 Sequelae of leprosy
- B94 Sequelae of other and unspecified infectious and parasitic diseases

Bacterial, viral and other infectious agents (B95-B97)

- B95 Streptococcus and staphylococcus as the cause of diseases classified to other chapters
- B96 Other bacterial agents as the cause of diseases classified to other chapters
- B97 Viral agents as the cause of diseases classified to other chapters

Other infectious diseases (B99)

- B99 Other and unspecified infectious diseases

Chapter II

Neoplasms (C00-D48)

Malignant neoplasms (C00-C97)

Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)

- C00 Malignant neoplasm of lip
- C01 Malignant neoplasm of base of tongue
- C02 Malignant neoplasm of other and unspecified parts of tongue
- C03 Malignant neoplasm of gum
- C04 Malignant neoplasm of floor of mouth
- C05 Malignant neoplasm of palate
- C06 Malignant neoplasm of other and unspecified parts of mouth
- C07 Malignant neoplasm of parotid gland
- C08 Malignant neoplasm of other and unspecified major salivary glands
- C09 Malignant neoplasm of tonsil
- C10 Malignant neoplasm of oropharynx
- C11 Malignant neoplasm of nasopharynx
- C12 Malignant neoplasm of piriform sinus
- C13 Malignant neoplasm of hypopharynx
- C14 Malignant neoplasm of other and ill-defined sites in the lip, oral cavity and pharynx

Malignant neoplasms of digestive organs (C15-C26)

- C15 Malignant neoplasm of oesophagus
- C16 Malignant neoplasm of stomach
- C17 Malignant neoplasm of small intestine
- C18 Malignant neoplasm of colon
- C19 Malignant neoplasm of rectosigmoid junction
- C20 Malignant neoplasm of rectum
- C21 Malignant neoplasm of anus and anal canal
- C22 Malignant neoplasm of liver and intrahepatic bile ducts
- C23 Malignant neoplasm of gallbladder
- C24 Malignant neoplasm of other and unspecified parts of biliary tract
- C25 Malignant neoplasm of pancreas
- C26 Malignant neoplasm of other and ill-defined digestive organs

Malignant neoplasms of respiratory and intrathoracic organs (C30-C39)

- C30 Malignant neoplasm of nasal cavity and middle ear
- C31 Malignant neoplasm of accessory sinuses
- C32 Malignant neoplasm of larynx
- C33 Malignant neoplasm of trachea
- C34 Malignant neoplasm of bronchus and lung
- C37 Malignant neoplasm of thymus

- C38 Malignant neoplasm of heart, mediastinum and pleura
- C39 Malignant neoplasm of other and ill-defined sites in the respiratory system and intrathoracic organs

Malignant neoplasms of bone and articular cartilage (C40-C41)

- C40 Malignant neoplasm of bone and articular cartilage of limbs
- C41 Malignant neoplasm of bone and articular cartilage of other and unspecified sites

Melanoma and other malignant neoplasms of skin (C43-C44)

- C43 Malignant melanoma of skin
- C44 Other malignant neoplasms of skin

Malignant neoplasms of mesothelial and soft tissue (C45-C49)

- C45 Mesothelioma
- C46 Kaposi's sarcoma
- C47 Malignant neoplasm of peripheral nerves and autonomic nervous system
- C48 Malignant neoplasm of retroperitoneum and peritoneum
- C49 Malignant neoplasm of other connective and soft tissue

Malignant neoplasm of breast (C50)

- C50 Malignant neoplasm of breast

Malignant neoplasms of female genital organs (C51-C58)

- C51 Malignant neoplasm of vulva
- C52 Malignant neoplasm of vagina
- C53 Malignant neoplasm of cervix uteri
- C54 Malignant neoplasm of corpus uteri
- C55 Malignant neoplasm of uterus, part unspecified
- C56 Malignant neoplasm of ovary
- C57 Malignant neoplasm of other and unspecified female genital organs
- C58 Malignant neoplasm of placenta

Malignant neoplasms of male genital organs (C60-C63)

- C60 Malignant neoplasm of penis
- C61 Malignant neoplasm of prostate
- C62 Malignant neoplasm of testis
- C63 Malignant neoplasm of other and unspecified male genital organs

Malignant neoplasms of urinary tract (C64-C68)

- C64 Malignant neoplasm of kidney, except renal pelvis
- C65 Malignant neoplasm of renal pelvis
- C66 Malignant neoplasm of ureter
- C67 Malignant neoplasm of bladder
- C68 Malignant neoplasm of other and unspecified urinary organs

Malignant neoplasms of eye, brain and other parts of central nervous system (C69-C72)

- C69 Malignant neoplasm of eye and adnexa
- C70 Malignant neoplasm of meninges
- C71 Malignant neoplasm of brain
- C72 Malignant neoplasm of spinal cord, cranial nerves and other parts of central nervous system

Malignant neoplasms of thyroid and other endocrine glands (C73-C75)

- C73 Malignant neoplasm of thyroid gland
- C74 Malignant neoplasm of adrenal gland
- C75 Malignant neoplasm of other endocrine glands and related structures

Malignant neoplasms of ill-defined, secondary and unspecified sites (C76-C80)

- C76 Malignant neoplasm of other and ill-defined sites
- C77 Secondary and unspecified malignant neoplasm of lymph nodes
- C78 Secondary malignant neoplasm of respiratory and digestive organs
- C79 Secondary malignant neoplasm of other sites
- C80 Malignant neoplasm without specification of site

Malignant neoplasms of lymphoid, haematopoietic and related tissue (C81-C96)

- C81 Hodgkin's disease
- C82 Follicular [nodular] non-Hodgkin's lymphoma
- C83 Diffuse non-Hodgkin's lymphoma
- C84 Peripheral and cutaneous T-cell lymphomas
- C85 Other and unspecified types of non-Hodgkin's lymphoma
- C88 Malignant immunoproliferative diseases
- C90 Multiple myeloma and malignant plasma cell neoplasms
- C91 Lymphoid leukaemia
- C92 Myeloid leukaemia
- C93 Monocytic leukaemia
- C94 Other leukaemias of specified cell type
- C95 Leukaemia of unspecified cell type
- C96 Other and unspecified malignant neoplasms of lymphoid, haematopoietic and related tissue

Malignant neoplasms of independent (primary) multiple sites (C97)

- C97 Malignant neoplasms of independent (primary) multiple sites

In situ neoplasms (D00-D09)

- D00 Carcinoma in situ of oral cavity, oesophagus and stomach
- D01 Carcinoma in situ of other and unspecified digestive organs
- D02 Carcinoma in situ of middle ear and respiratory system
- D03 Melanoma in situ
- D04 Carcinoma in situ of skin
- D05 Carcinoma in situ of breast
- D06 Carcinoma in situ of cervix uteri
- D07 Carcinoma in situ of other and unspecified genital organs
- D09 Carcinoma in situ of other and unspecified sites

Benign neoplasms (D10-D36)

- D10 Benign neoplasm of mouth and pharynx
- D11 Benign neoplasm of major salivary glands
- D12 Benign neoplasm of colon, rectum, anus and anal canal
- D13 Benign neoplasm of other and ill-defined parts of digestive system
- D14 Benign neoplasm of middle ear and respiratory system
- D15 Benign neoplasm of other and unspecified intrathoracic organs
- D16 Benign neoplasm of bone and articular cartilage
- D17 Benign lipomatous neoplasm
- D18 Haemangioma and lymphangioma, any site
- D19 Benign neoplasm of mesothelial tissue
- D20 Benign neoplasm of soft tissue of retroperitoneum and peritoneum

- D21 Other benign neoplasms of connective and other soft tissue
- D22 Melanocytic naevi
- D23 Other benign neoplasms of skin
- D24 Benign neoplasm of breast
- D25 Leiomyoma of uterus
- D26 Other benign neoplasms of uterus
- D27 Benign neoplasm of ovary
- D28 Benign neoplasm of other and unspecified female genital organs
- D29 Benign neoplasm of male genital organs
- D30 Benign neoplasm of urinary organs
- D31 Benign neoplasm of eye and adnexa
- D32 Benign neoplasm of meninges
- D33 Benign neoplasm of brain and other parts of central nervous system
- D34 Benign neoplasm of thyroid gland
- D35 Benign neoplasm of other and unspecified endocrine glands
- D36 Benign neoplasm of other and unspecified sites

Neoplasms of uncertain or unknown behaviour (D37-D48)

- D37 Neoplasm of uncertain or unknown behaviour of oral cavity and digestive organs
- D38 Neoplasm of uncertain or unknown behaviour of middle ear and respiratory and intrathoracic organs
- D39 Neoplasm of uncertain or unknown behaviour of female genital organs
- D40 Neoplasm of uncertain or unknown behaviour of male genital organs
- D41 Neoplasm of uncertain or unknown behaviour of urinary organs
- D42 Neoplasm of uncertain or unknown behaviour of meninges
- D43 Neoplasm of uncertain or unknown behaviour of brain and central nervous system
- D44 Neoplasm of uncertain or unknown behaviour of endocrine glands
- D45 Polycythaemia vera
- D46 Myelodysplastic syndromes
- D47 Other neoplasms of uncertain or unknown behaviour of lymphoid, haematopoietic and related tissue
- D48 Neoplasm of uncertain or unknown behaviour of other and unspecified sites

Chapter III

Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)

Nutritional anaemias (D50-D53)

- D50 Iron deficiency anaemia
- D51 Vitamin B12 deficiency anaemia
- D52 Folate deficiency anaemia
- D53 Other nutritional anaemias

Haemolytic anaemias (D55-D59)

- D55 Anaemia due to enzyme disorders
- D56 Thalassaemia
- D57 Sickle-cell disorders
- D58 Other hereditary haemolytic anaemias
- D59 Acquired haemolytic anaemia

Aplastic and other anaemias (D60-D64)

- D60 Acquired pure red cell aplasia [erythroblastopenia]
- D61 Other aplastic anaemias
- D62 Acute posthaemorrhagic anaemia
- D63? Anaemia in chronic diseases classified elsewhere
- D64 Other anaemias

Coagulation defects, purpura and other haemorrhagic conditions (D65-D69)

- D65 Disseminated intravascular coagulation [defibrination syndrome]
- D66 Hereditary factor VIII deficiency
- D67 Hereditary factor IX deficiency
- D68 Other coagulation defects
- D69 Purpura and other haemorrhagic conditions

Other diseases of blood and blood-forming organs (D70-D77)

- D70 Agranulocytosis
- D71 Functional disorders of polymorphonuclear neutrophils
- D72 Other disorders of white blood cells
- D73 Diseases of spleen
- D74 Methaemoglobinaemia
- D75 Other diseases of blood and blood-forming organs
- D76 Certain diseases involving lymphoreticular tissue and reticulohistiocytic system
- D77? Other disorders of blood and blood-forming organs in diseases classified elsewhere

Certain disorders involving the immune mechanism (D80-D89)

- D80 Immunodeficiency with predominantly antibody defects
- D81 Combined immunodeficiencies
- D82 Immunodeficiency associated with other major defects
- D83 Common variable immunodeficiency
- D84 Other immunodeficiencies
- D86 Sarcoidosis
- D89 Other disorders involving the immune mechanism, not elsewhere classified

Chapter IV

Endocrine, nutritional and metabolic diseases (E00-E90)

Disorders of thyroid gland (E00-E07)

- E00 Congenital iodine-deficiency syndrome
- E01 Iodine-deficiency-related thyroid disorders and allied conditions
- E02 Subclinical iodine-deficiency hypothyroidism
- E03 Other hypothyroidism
- E04 Other nontoxic goitre
- E05 Thyrotoxicosis [hyperthyroidism]
- E06 Thyroiditis
- E07 Other disorders of thyroid

Diabetes mellitus (E10-E14)

- E10 Insulin-dependent diabetes mellitus
- E11 Non-insulin-dependent diabetes mellitus
- E12 Malnutrition-related diabetes mellitus
- E13 Other specified diabetes mellitus
- E14 Unspecified diabetes mellitus

Other disorders of glucose regulation and pancreatic internal secretion (E15-E16)

- E15 Nondiabetic hypoglycaemic coma
- E16 Other disorders of pancreatic internal secretion

Disorders of other endocrine glands (E20-E35)

- E20 Hypoparathyroidism
- E21 Hyperparathyroidism and other disorders of parathyroid gland
- E22 Hyperfunction of pituitary gland
- E23 Hypofunction and other disorders of pituitary gland
- E24 Cushing's syndrome
- E25 Adrenogenital disorders
- E26 Hyperaldosteronism
- E27 Other disorders of adrenal gland
- E28 Ovarian dysfunction
- E29 Testicular dysfunction
- E30 Disorders of puberty, not elsewhere classified
- E31 Polyglandular dysfunction
- E32 Diseases of thymus
- E34 Other endocrine disorders
- E35? Disorders of endocrine glands in diseases classified elsewhere

Malnutrition (E40-E46)

- E40 Kwashiorkor
- E41 Nutritional marasmus
- E42 Marasmic kwashiorkor
- E43 Unspecified severe protein-energy malnutrition
- E44 Protein-energy malnutrition of moderate and mild degree
- E45 Retarded development following protein-energy malnutrition
- E46 Unspecified protein-energy malnutrition

Other nutritional deficiencies (E50-E64)

- E50 Vitamin A deficiency
- E51 Thiamine deficiency
- E52 Niacin deficiency [pellagra]
- E53 Deficiency of other B group vitamins
- E54 Ascorbic acid deficiency
- E55 Vitamin D deficiency
- E56 Other vitamin deficiencies
- E58 Dietary calcium deficiency
- E59 Dietary selenium deficiency
- E60 Dietary zinc deficiency
- E61 Deficiency of other nutrient elements
- E63 Other nutritional deficiencies
- E64 Sequelae of malnutrition and other nutritional deficiencies

Obesity and other hyperalimentation (E65-E68)

- E65 Localized adiposity
- E66 Obesity
- E67 Other hyperalimentation
- E68 Sequelae of hyperalimentation

Metabolic disorders (E70-E90)

- E70 Disorders of aromatic amino-acid metabolism
- E71 Disorders of branched-chain amino-acid metabolism and fatty-acid metabolism

- E72 Other disorders of amino-acid metabolism
- E73 Lactose intolerance
- E74 Other disorders of carbohydrate metabolism
- E75 Disorders of sphingolipid metabolism and other lipid storage disorders
- E76 Disorders of glycosaminoglycan metabolism
- E77 Disorders of glycoprotein metabolism
- E78 Disorders of lipoprotein metabolism and other lipidaemias
- E79 Disorders of purine and pyrimidine metabolism
- E80 Disorders of porphyrin and bilirubin metabolism
- E83 Disorders of mineral metabolism
- E84 Cystic fibrosis
- E85 Amyloidosis
- E86 Volume depletion
- E87 Other disorders of fluid, electrolyte and acid-base balance
- E88 Other metabolic disorders
- E89 Postprocedural endocrine and metabolic disorders, not elsewhere classified
- E90? Nutritional and metabolic disorders in diseases classified elsewhere

Chapter V

Mental and behavioural disorders (F00-F99)

Organic, including symptomatic, mental disorders (F00-F09)

- F00? Dementia in Alzheimer's disease
- F01 Vascular dementia
- F02? Dementia in other diseases classified elsewhere
- F03 Unspecified dementia
- F04 Organic amnesic syndrome, not induced by alcohol and other psychoactive substances
- F05 Delirium, not induced by alcohol and other psychoactive substances
- F06 Other mental disorders due to brain damage and dysfunction and to physical disease
- F07 Personality and behavioural disorders due to brain disease, damage and dysfunction
- F09 Unspecified organic or symptomatic mental disorder

Mental and behavioural disorders due to psychoactive substance use (F10-F19)

- F10 Mental and behavioural disorders due to use of alcohol
- F11 Mental and behavioural disorders due to use of opioids
- F12 Mental and behavioural disorders due to use of cannabinoids
- F13 Mental and behavioural disorders due to use of sedatives or hypnotics
- F14 Mental and behavioural disorders due to use of cocaine
- F15 Mental and behavioural disorders due to use of other stimulants, including caffeine
- F16 Mental and behavioural disorders due to use of hallucinogens
- F17 Mental and behavioural disorders due to use of tobacco
- F18 Mental and behavioural disorders due to use of volatile solvents
- F19 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances

Schizophrenia, schizotypal and delusional disorders (F20-F29)

- F20 Schizophrenia
- F21 Schizotypal disorder
- F22 Persistent delusional disorders
- F23 Acute and transient psychotic disorders
- F24 Induced delusional disorder

- F25 Schizoaffective disorders
- F28 Other nonorganic psychotic disorders
- F29 Unspecified nonorganic psychosis

Mood [affective] disorders (F30-F39)

- F30 Manic episode
- F31 Bipolar affective disorder
- F32 Depressive episode
- F33 Recurrent depressive disorder
- F34 Persistent mood [affective] disorders
- F38 Other mood [affective] disorders
- F39 Unspecified mood [affective] disorder

Neurotic, stress-related and somatoform disorders (F40-F48)

- F40 Phobic anxiety disorders
- F41 Other anxiety disorders
- F42 Obsessive-compulsive disorder
- F43 Reaction to severe stress, and adjustment disorders
- F44 Dissociative [conversion] disorders
- F45 Somatoform disorders
- F48 Other neurotic disorders

Behavioural syndromes associated with physiological disturbances and physical factors (F50-F59)

- F50 Eating disorders
- F51 Nonorganic sleep disorders
- F52 Sexual dysfunction, not caused by organic disorder or disease
- F53 Mental and behavioural disorders associated with the puerperium, not elsewhere classified
- F54 Psychological and behavioural factors associated with disorders or diseases classified elsewhere
- F55 Abuse of non-dependence-producing substances
- F59 Unspecified behavioural syndromes associated with physiological disturbances and physical factors

Disorders of adult personality and behaviour (F60-F69)

- F60 Specific personality disorders
- F61 Mixed and other personality disorders
- F62 Enduring personality changes, not attributable to brain damage and disease
- F63 Habit and impulse disorders
- F64 Gender identity disorders
- F65 Disorders of sexual preference
- F66 Psychological and behavioural disorders associated with sexual development and orientation
- F68 Other disorders of adult personality and behaviour
- F69 Unspecified disorder of adult personality and behaviour

Mental retardation (F70-F79)

- F70 Mild mental retardation
- F71 Moderate mental retardation
- F72 Severe mental retardation
- F73 Profound mental retardation
- F78 Other mental retardation
- F79 Unspecified mental retardation

Disorders of psychological development (F80-F89)

- F80 Specific developmental disorders of speech and language
- F81 Specific developmental disorders of scholastic skills
- F82 Specific developmental disorder of motor function
- F83 Mixed specific developmental disorders
- F84 Pervasive developmental disorders
- F88 Other disorders of psychological development
- F89 Unspecified disorder of psychological development

Behavioural and emotional disorders with onset usually occurring in childhood and adolescence (F90-F98)

- F90 Hyperkinetic disorders
- F91 Conduct disorders
- F92 Mixed disorders of conduct and emotions
- F93 Emotional disorders with onset specific to childhood
- F94 Disorders of social functioning with onset specific to childhood and adolescence
- F95 Tic disorders
- F98 Other behavioural and emotional disorders with onset usually occurring in childhood and adolescence

Unspecified mental disorder (F99)

- F99 Mental disorder, not otherwise specified

Chapter VI**Diseases of the nervous system (G00-G99)****Inflammatory diseases of the central nervous system (G00-G09)**

- G00 Bacterial meningitis, not elsewhere classified
- G01? Meningitis in bacterial diseases classified elsewhere
- G02? Meningitis in other infectious and parasitic diseases classified elsewhere
- G03 Meningitis due to other and unspecified causes
- G04 Encephalitis, myelitis and encephalomyelitis
- G05? Encephalitis, myelitis and encephalomyelitis in diseases classified elsewhere
- G06 Intracranial and intraspinal abscess and granuloma
- G07? Intracranial and intraspinal abscess and granuloma in diseases classified elsewhere
- G08 Intracranial and intraspinal phlebitis and thrombophlebitis
- G09 Sequelae of inflammatory diseases of central nervous system

Systemic atrophies primarily affecting the central nervous system (G10-G13)

- G10 Huntington's disease
- G11 Hereditary ataxia
- G12 Spinal muscular atrophy and related syndromes
- G13? Systemic atrophies primarily affecting central nervous system in diseases classified elsewhere

Extrapyramidal and movement disorders (G20-G26)

- G20 Parkinson's disease
- G21 Secondary parkinsonism
- G22? Parkinsonism in diseases classified elsewhere
- G23 Other degenerative diseases of basal ganglia
- G24 Dystonia
- G25 Other extrapyramidal and movement disorders
- G26? Extrapyramidal and movement disorders in diseases classified elsewhere

Other degenerative diseases of the nervous system (G30-G32)

- G30 Alzheimer's disease
- G31 Other degenerative diseases of nervous system, not elsewhere classified
- G32? Other degenerative disorders of nervous system in diseases classified elsewhere

Demyelinating diseases of the central nervous system (G35-G37)

- G35 Multiple sclerosis
- G36 Other acute disseminated demyelination
- G37 Other demyelinating diseases of central nervous system

Episodic and paroxysmal disorders (G40-G47)

- G40 Epilepsy
- G41 Status epilepticus
- G43 Migraine
- G44 Other headache syndromes
- G45 Transient cerebral ischaemic attacks and related syndromes
- G46? Vascular syndromes of brain in cerebrovascular diseases
- G47 Sleep disorders

Nerve, nerve root and plexus disorders (G50-G59)

- G50 Disorders of trigeminal nerve
- G51 Facial nerve disorders
- G52 Disorders of other cranial nerves
- G53? Cranial nerve disorders in diseases classified elsewhere
- G54 Nerve root and plexus disorders
- G55? Nerve root and plexus compressions in diseases classified elsewhere
- G56 Mononeuropathies of upper limb
- G57 Mononeuropathies of lower limb
- G58 Other mononeuropathies
- G59? Mononeuropathy in diseases classified elsewhere

Polyneuropathies and other disorders of the peripheral nervous system (G60-G64)

- G60 Hereditary and idiopathic neuropathy
- G61 Inflammatory polyneuropathy
- G62 Other polyneuropathies
- G63? Polyneuropathy in diseases classified elsewhere
- G64 Other disorders of peripheral nervous system

Diseases of myoneural junction and muscle (G70-G73)

- G70 Myasthenia gravis and other myoneural disorders
- G71 Primary disorders of muscles
- G72 Other myopathies
- G73? Disorders of myoneural junction and muscle in diseases classified elsewhere

Cerebral palsy and other paralytic syndromes (G80-G83)

- G80 Infantile cerebral palsy
- G81 Hemiplegia
- G82 Paraplegia and tetraplegia
- G83 Other paralytic syndromes

Other disorders of the nervous system (G90-G99)

- G90 Disorders of autonomic nervous system
- G91 Hydrocephalus
- G92 Toxic encephalopathy

- G93 Other disorders of brain
- G94? Other disorders of brain in diseases classified elsewhere
- G95 Other diseases of spinal cord
- G96 Other disorders of central nervous system
- G97 Postprocedural disorders of nervous system, not elsewhere classified
- G98 Other disorders of nervous system, not elsewhere classified
- G99? Other disorders of nervous system in diseases classified elsewhere

Chapter VII

Diseases of the eye and adnexa (H00-H59)

Disorders of eyelid, lacrimal system and orbit (H00-H06)

- H00 Hordeolum and chalazion
- H01 Other inflammation of eyelid
- H02 Other disorders of eyelid
- H03? Disorders of eyelid in diseases classified elsewhere
- H04 Disorders of lacrimal system
- H05 Disorders of orbit
- H06? Disorders of lacrimal system and orbit in diseases classified elsewhere

Disorders of conjunctiva (H10-H13)

- H10 Conjunctivitis
- H11 Other disorders of conjunctiva
- H13? Disorders of conjunctiva in diseases classified elsewhere

Disorders of sclera, cornea, iris and ciliary body (H15-H22)

- H15 Disorders of sclera
- H16 Keratitis
- H17 Corneal scars and opacities
- H18 Other disorders of cornea
- H19? Disorders of sclera and cornea in diseases classified elsewhere
- H20 Iridocyclitis
- H21 Other disorders of iris and ciliary body
- H22? Disorders of iris and ciliary body in diseases classified elsewhere

Disorders of lens (H25-H28)

- H25 Senile cataract
- H26 Other cataract
- H27 Other disorders of lens
- H28? Cataract and other disorders of lens in diseases classified elsewhere

Disorders of choroid and retina (H30-H36)

- H30 Chorioretinal inflammation
- H31 Other disorders of choroid
- H32? Chorioretinal disorders in diseases classified elsewhere
- H33 Retinal detachments and breaks
- H34 Retinal vascular occlusions
- H35 Other retinal disorders
- H36? Retinal disorders in diseases classified elsewhere

Glaucoma (H40-H42)

- H40 Glaucoma
- H42? Glaucoma in diseases classified elsewhere

Disorders of vitreous body and globe (H43-H45)

- H43 Disorders of vitreous body
- H44 Disorders of globe
- H45? Disorders of vitreous body and globe in diseases classified elsewhere

Disorders of optic nerve and visual pathways (H46-H48)

- H46 Optic neuritis
- H47 Other disorders of optic [2nd] nerve and visual pathways
- H48? Disorders of optic [2nd] nerve and visual pathways in diseases classified elsewhere

Disorders of ocular muscles, binocular movement, accommodation and refraction (H49-H52)

- H49 Paralytic strabismus
- H50 Other strabismus
- H51 Other disorders of binocular movement
- H52 Disorders of refraction and accommodation

Visual disturbances and blindness (H53-H54)

- H53 Visual disturbances
- H54 Blindness and low vision

Other disorders of eye and adnexa (H55-H59)

- H55 Nystagmus and other irregular eye movements
- H57 Other disorders of eye and adnexa
- H58? Other disorders of eye and adnexa in diseases classified elsewhere
- H59 Postprocedural disorders of eye and adnexa, not elsewhere classified

Chapter VIII

Diseases of the ear and mastoid process (H60-H95)

Diseases of external ear (H60-H62)

- H60 Otitis externa
- H61 Other disorders of external ear
- H62? Disorders of external ear in diseases classified elsewhere

Diseases of middle ear and mastoid (H65-H75)

- H65 Nonsuppurative otitis media
- H66 Suppurative and unspecified otitis media
- H67? Otitis media in diseases classified elsewhere
- H68 Eustachian salpingitis and obstruction
- H69 Other disorders of Eustachian tube
- H70 Mastoiditis and related conditions
- H71 Cholesteatoma of middle ear
- H72 Perforation of tympanic membrane
- H73 Other disorders of tympanic membrane
- H74 Other disorders of middle ear and mastoid
- H75? Other disorders of middle ear and mastoid in diseases classified elsewhere

Diseases of inner ear (H80-H83)

- H80 Otosclerosis
- H81 Disorders of vestibular function
- H82? Vertiginous syndromes in diseases classified elsewhere
- H83 Other diseases of inner ear

Other disorders of ear (H90-H95)

- H90 Conductive and sensorineural hearing loss
- H91 Other hearing loss
- H92 Otolgia and effusion of ear
- H93 Other disorders of ear, not elsewhere classified
- H94? Other disorders of ear in diseases classified elsewhere
- H95 Postprocedural disorders of ear and mastoid process, not elsewhere classified

Chapter IX

Diseases of the circulatory system(I00-I99)

Acute rheumatic fever (I00-I02)

- I00 Rheumatic fever without mention of heart involvement
- I01 Rheumatic fever with heart involvement
- I02 Rheumatic chorea

Chronic rheumatic heart diseases (I05-I09)

- I05 Rheumatic mitral valve diseases
- I06 Rheumatic aortic valve diseases
- I07 Rheumatic tricuspid valve diseases
- I08 Multiple valve diseases
- I09 Other rheumatic heart diseases

Hypertensive diseases (I10-I15)

- I10 Essential (primary) hypertension
- I11 Hypertensive heart disease
- I12 Hypertensive renal disease
- I13 Hypertensive heart and renal disease
- I15 Secondary hypertension

Ischaemic heart diseases (I20-I25)

- I20 Angina pectoris
- I21 Acute myocardial infarction
- I22 Subsequent myocardial infarction
- I23 Certain current complications following acute myocardial infarction
- I24 Other acute ischaemic heart diseases
- I25 Chronic ischaemic heart disease

Pulmonary heart disease and diseases of pulmonary circulation (I26-I28)

- I26 Pulmonary embolism
- I27 Other pulmonary heart diseases
- I28 Other diseases of pulmonary vessels

Other forms of heart disease (I30-I52)

- I30 Acute pericarditis
- I31 Other diseases of pericardium
- I32? Pericarditis in diseases classified elsewhere
- I33 Acute and subacute endocarditis
- I34 Nonrheumatic mitral valve disorders
- I35 Nonrheumatic aortic valve disorders
- I36 Nonrheumatic tricuspid valve disorders
- I37 Pulmonary valve disorders
- I38 Endocarditis, valve unspecified

- I39? Endocarditis and heart valve disorders in diseases classified elsewhere
- I40 Acute myocarditis
- I41? Myocarditis in diseases classified elsewhere
- I42 Cardiomyopathy
- I43? Cardiomyopathy in diseases classified elsewhere
- I44 Atrioventricular and left bundle-branch block
- I45 Other conduction disorders
- I46 Cardiac arrest
- I47 Paroxysmal tachycardia
- I48 Atrial fibrillation and flutter
- I49 Other cardiac arrhythmias
- I50 Heart failure
- I51 Complications and ill-defined descriptions of heart disease
- I52? Other heart disorders in diseases classified elsewhere

Cerebrovascular diseases (I60-I69)

- I60 Subarachnoid haemorrhage
- I61 Intracerebral haemorrhage
- I62 Other nontraumatic intracranial haemorrhage
- I63 Cerebral infarction
- I64 Stroke, not specified as haemorrhage or infarction
- I65 Occlusion and stenosis of precerebral arteries, not resulting in cerebral infarction
- I66 Occlusion and stenosis of cerebral arteries, not resulting in cerebral infarction
- I67 Other cerebrovascular diseases
- I68? Cerebrovascular disorders in diseases classified elsewhere
- I69 Sequelae of cerebrovascular disease

Diseases of arteries, arterioles and capillaries (I70-I79)

- I70 Atherosclerosis
- I71 Aortic aneurysm and dissection
- I72 Other aneurysm
- I73 Other peripheral vascular diseases
- I74 Arterial embolism and thrombosis
- I77 Other disorders of arteries and arterioles
- I78 Diseases of capillaries
- I79? Disorders of arteries, arterioles and capillaries in diseases classified elsewhere

Diseases of veins, lymphatic vessels and lymph nodes, not elsewhere classified (I80-I89)

- I80 Phlebitis and thrombophlebitis
- I81 Portal vein thrombosis
- I82 Other venous embolism and thrombosis
- I83 Varicose veins of lower extremities
- I84 Haemorrhoids
- I85 Oesophageal varices
- I86 Varicose veins of other sites
- I87 Other disorders of veins
- I88 Nonspecific lymphadenitis
- I89 Other noninfective disorders of lymphatic vessels and lymph nodes

Other and unspecified disorders of the circulatory system (I95-I99)

- I95 Hypotension
- I97 Postprocedural disorders of circulatory system, not elsewhere classified

- I98 Other disorders of circulatory system in diseases classified elsewhere
- I99 Other and unspecified disorders of circulatory system

Chapter X

Diseases of the respiratory system (J00-J99)

Acute upper respiratory infections (J00-J06)

- J00 Acute nasopharyngitis [common cold]
- J01 Acute sinusitis
- J02 Acute pharyngitis
- J03 Acute tonsillitis
- J04 Acute laryngitis and tracheitis
- J05 Acute obstructive laryngitis [croup] and epiglottitis
- J06 Acute upper respiratory infections of multiple and unspecified sites

Influenza and pneumonia (J10-J18)

- J10 Influenza due to identified influenza virus
- J11 Influenza, virus not identified
- J12 Viral pneumonia, not elsewhere classified
- J13 Pneumonia due to *Streptococcus pneumoniae*
- J14 Pneumonia due to *Haemophilus influenzae*
- J15 Bacterial pneumonia, not elsewhere classified
- J16 Pneumonia due to other infectious organisms, not elsewhere classified
- J17? Pneumonia in diseases classified elsewhere
- J18 Pneumonia, organism unspecified

Other acute lower respiratory infections (J20-J22)

- J20 Acute bronchitis
- J21 Acute bronchiolitis
- J22 Unspecified acute lower respiratory infection

Other diseases of upper respiratory tract (J30-J39)

- J30 Vasomotor and allergic rhinitis
- J31 Chronic rhinitis, nasopharyngitis and pharyngitis
- J32 Chronic sinusitis
- J33 Nasal polyp
- J34 Other disorders of nose and nasal sinuses
- J35 Chronic diseases of tonsils and adenoids
- J36 Peritonsillar abscess
- J37 Chronic laryngitis and laryngotracheitis
- J38 Diseases of vocal cords and larynx, not elsewhere classified
- J39 Other diseases of upper respiratory tract

Chronic lower respiratory diseases (J40-J47)

- J40 Bronchitis, not specified as acute or chronic
- J41 Simple and mucopurulent chronic bronchitis
- J42 Unspecified chronic bronchitis
- J43 Emphysema
- J44 Other chronic obstructive pulmonary disease
- J45 Asthma
- J46 Status asthmaticus
- J47 Bronchiectasis

Lung diseases due to external agents (J60-J70)

- J60 Coalworker's pneumoconiosis
- J61 Pneumoconiosis due to asbestos and other mineral fibres
- J62 Pneumoconiosis due to dust containing silica
- J63 Pneumoconiosis due to other inorganic dusts
- J64 Unspecified pneumoconiosis
- J65 Pneumoconiosis associated with tuberculosis
- J66 Airway disease due to specific organic dust
- J67 Hypersensitivity pneumonitis due to organic dust
- J68 Respiratory conditions due to inhalation of chemicals, gases, fumes and vapours
- J69 Pneumonitis due to solids and liquids
- J70 Respiratory conditions due to other external agents

Other respiratory diseases principally affecting the interstitium (J80-J84)

- J80 Adult respiratory distress syndrome
- J81 Pulmonary oedema
- J82 Pulmonary eosinophilia, not elsewhere classified
- J84 Other interstitial pulmonary diseases

Suppurative and necrotic conditions of lower respiratory tract (J85-J86)

- J85 Abscess of lung and mediastinum
- J86 Pyothorax

Other diseases of pleura (J90-J94)

- J90 Pleural effusion, not elsewhere classified
- J91? Pleural effusion in conditions classified elsewhere
- J92 Pleural plaque
- J93 Pneumothorax
- J94 Other pleural conditions

Other diseases of the respiratory system (J95-J99)

- J95 Postprocedural respiratory disorders, not elsewhere classified
- J96 Respiratory failure, not elsewhere classified
- J98 Other respiratory disorders
- J99? Respiratory disorders in diseases classified elsewhere

Chapter XI**Diseases of the digestive system (K00-K93)****Diseases of oral cavity, salivary glands and jaws (K00-K14)**

- K00 Disorders of tooth development and eruption
- K01 Embedded and impacted teeth
- K02 Dental caries
- K03 Other diseases of hard tissues of teeth
- K04 Diseases of pulp and periapical tissues
- K05 Gingivitis and periodontal diseases
- K06 Other disorders of gingiva and edentulous alveolar ridge
- K07 Dentofacial anomalies [including malocclusion]
- K08 Other disorders of teeth and supporting structures
- K09 Cysts of oral region, not elsewhere classified
- K10 Other diseases of jaws
- K11 Diseases of salivary glands
- K12 Stomatitis and related lesions

- K13 Other diseases of lip and oral mucosa
- K14 Diseases of tongue

Diseases of oesophagus, stomach and duodenum (K20-K31)

- K20 Oesophagitis
- K21 Gastro-oesophageal reflux disease
- K22 Other diseases of oesophagus
- K23? Disorders of oesophagus in diseases classified elsewhere
- K25 Gastric ulcer
- K26 Duodenal ulcer
- K27 Peptic ulcer, site unspecified
- K28 Gastrojejunal ulcer
- K29 Gastritis and duodenitis
- K30 Dyspepsia
- K31 Other diseases of stomach and duodenum

Diseases of appendix (K35-K38)

- K35 Acute appendicitis
- K36 Other appendicitis
- K37 Unspecified appendicitis
- K38 Other diseases of appendix

Hernia (K40-K46)

- K40 Inguinal hernia
- K41 Femoral hernia
- K42 Umbilical hernia
- K43 Ventral hernia
- K44 Diaphragmatic hernia
- K45 Other abdominal hernia
- K46 Unspecified abdominal hernia

Noninfective enteritis and colitis (K50-K52)

- K50 Crohn's disease [regional enteritis]
- K51 Ulcerative colitis
- K52 Other noninfective gastroenteritis and colitis

Other diseases of intestines (K55-K63)

- K55 Vascular disorders of intestine
- K56 Paralytic ileus and intestinal obstruction without hernia
- K57 Diverticular disease of intestine
- K58 Irritable bowel syndrome
- K59 Other functional intestinal disorders
- K60 Fissure and fistula of anal and rectal regions
- K61 Abscess of anal and rectal regions
- K62 Other diseases of anus and rectum
- K63 Other diseases of intestine

Diseases of peritoneum (K65-K67)

- K65 Peritonitis
- K66 Other disorders of peritoneum
- K67? Disorders of peritoneum in infectious diseases classified elsewhere

Diseases of liver (K70-K77)

- K70 Alcoholic liver disease
- K71 Toxic liver disease
- K72 Hepatic failure, not elsewhere classified
- K73 Chronic hepatitis, not elsewhere classified
- K74 Fibrosis and cirrhosis of liver
- K75 Other inflammatory liver diseases
- K76 Other diseases of liver
- K77? Liver disorders in diseases classified elsewhere

Disorders of gallbladder, biliary tract and pancreas (K80-K87)

- K80 Cholelithiasis
- K81 Cholecystitis
- K82 Other diseases of gallbladder
- K83 Other diseases of biliary tract
- K85 Acute pancreatitis
- K86 Other diseases of pancreas
- K87? Disorders of gallbladder, biliary tract and pancreas in diseases classified elsewhere

Other diseases of the digestive system (K90-K93)

- K90 Intestinal malabsorption
- K91 Postprocedural disorders of digestive system, not elsewhere classified
- K92 Other diseases of digestive system
- K93? Disorders of other digestive organs in diseases classified elsewhere

Chapter XII**Diseases of the skin and subcutaneous tissue (L00-L99)****Infections of the skin and subcutaneous tissue (L00-L08)**

- L00 Staphylococcal scalded skin syndrome
- L01 Impetigo
- L02 Cutaneous abscess, furuncle and carbuncle
- L03 Cellulitis
- L04 Acute lymphadenitis
- L05 Pilonidal cyst
- L08 Other local infections of skin and subcutaneous tissue

Bullous disorders (L10-L14)

- L10 Pemphigus
- L11 Other acantholytic disorders
- L12 Pemphigoid
- L13 Other bullous disorders
- L14? Bullous disorders in diseases classified elsewhere

Dermatitis and eczema (L20-L30)

- L20 Atopic dermatitis
- L21 Seborrhoeic dermatitis
- L22 Diaper [napkin] dermatitis
- L23 Allergic contact dermatitis
- L24 Irritant contact dermatitis
- L25 Unspecified contact dermatitis
- L26 Exfoliative dermatitis

- L27 Dermatitis due to substances taken internally
- L28 Lichen simplex chronicus and prurigo
- L29 Pruritus
- L30 Other dermatitis

Papulosquamous disorders (L40-L45)

- L40 Psoriasis
- L41 Parapsoriasis
- L42 Pityriasis rosea
- L43 Lichen planus
- L44 Other papulosquamous disorders
- L45? Papulosquamous disorders in diseases classified elsewhere

Urticaria and erythema (L50-L54)

- L50 Urticaria
- L51 Erythema multiforme
- L52 Erythema nodosum
- L53 Other erythematous conditions
- L54? Erythema in diseases classified elsewhere

Radiation-related disorders of the skin and subcutaneous tissue (L55-L59)

- L55 Sunburn
- L56 Other acute skin changes due to ultraviolet radiation
- L57 Skin changes due to chronic exposure to nonionizing radiation
- L58 Radiodermatitis
- L59 Other disorders of skin and subcutaneous tissue related to radiation

Disorders of skin appendages (L60-L75)

- L60 Nail disorders
- L62? Nail disorders in diseases classified elsewhere
- L63 Alopecia areata
- L64 Androgenic alopecia
- L65 Other nonscarring hair loss
- L66 Cicatricial alopecia [scarring hair loss]
- L67 Hair colour and hair shaft abnormalities
- L68 Hypertrichosis
- L70 Acne
- L71 Rosacea
- L72 Follicular cysts of skin and subcutaneous tissue
- L73 Other follicular disorders
- L74 Eccrine sweat disorders
- L75 Apocrine sweat disorders

Other disorders of the skin and subcutaneous tissue (L80-L99)

- L80 Vitiligo
- L81 Other disorders of pigmentation
- L82 Seborrhoeic keratosis
- L83 Acanthosis nigricans
- L84 Corns and callosities
- L85 Other epidermal thickening
- L86? Keratoderma in diseases classified elsewhere
- L87 Transepidermal elimination disorders
- L88 Pyoderma gangrenosum
- L89 Decubitus ulcer

- L90 Atrophic disorders of skin
- L91 Hypertrophic disorders of skin
- L92 Granulomatous disorders of skin and subcutaneous tissue
- L93 Lupus erythematosus
- L94 Other localized connective tissue disorders
- L95 Vasculitis limited to skin, not elsewhere classified
- L97 Ulcer of lower limb, not elsewhere classified
- L98 Other disorders of skin and subcutaneous tissue, not elsewhere classified
- L99? Other disorders of skin and subcutaneous tissue in diseases classified elsewhere

Chapter XIII

Diseases of the musculoskeletal system and connective tissue (M00-M99)

Arthropathies (M00-M25)

Infectious arthropathies (M00-M03)

- M00 Pyogenic arthritis
- M01? Direct infections of joint in infectious and parasitic diseases classified elsewhere
- M02 Reactive arthropathies
- M03? Postinfective and reactive arthropathies in diseases classified elsewhere

Inflammatory polyarthropathies (M05-M14)

- M05 Seropositive rheumatoid arthritis
- M06 Other rheumatoid arthritis
- M07? Psoriatic and enteropathic arthropathies
- M08 Juvenile arthritis
- M09? Juvenile arthritis in diseases classified elsewhere
- M10 Gout
- M11 Other crystal arthropathies
- M12 Other specific arthropathies
- M13 Other arthritis
- M14? Arthropathies in other diseases classified elsewhere

Arthrosis (M15-M19)

- M15 Polyarthrosis
- M16 Coxarthrosis [arthrosis of hip]
- M17 Gonarthrosis [arthrosis of knee]
- M18 Arthrosis of first carpometacarpal joint
- M19 Other arthrosis

Other joint disorders (M20-M25)

- M20 Acquired deformities of fingers and toes
- M21 Other acquired deformities of limbs
- M22 Disorders of patella
- M23 Internal derangement of knee
- M24 Other specific joint derangements
- M25 Other joint disorders, not elsewhere classified

Systemic connective tissue disorders (M30-M36)

- M30 Polyarteritis nodosa and related conditions
- M31 Other necrotizing vasculopathies
- M32 Systemic lupus erythematosus
- M33 Dermatopolymyositis

- M34 Systemic sclerosis
- M35 Other systemic involvement of connective tissue
- M36? Systemic disorders of connective tissue in diseases classified elsewhere

Dorsopathies (M40-M54)

Deforming dorsopathies (M40-M43)

- M40 Kyphosis and lordosis
- M41 Scoliosis
- M42 Spinal osteochondrosis
- M43 Other deforming dorsopathies

Spondylopathies (M45-M49)

- M45 Ankylosing spondylitis
- M46 Other inflammatory spondylopathies
- M47 Spondylosis
- M48 Other spondylopathies
- M49? Spondylopathies in diseases classified elsewhere

Other dorsopathies (M50-M54)

- M50 Cervical disc disorders
- M51 Other intervertebral disc disorders
- M53 Other dorsopathies, not elsewhere classified
- M54 Dorsalgia

Soft tissue disorders (M60-M79)

Disorders of muscles (M60-M63)

- M60 Myositis
- M61 Calcification and ossification of muscle
- M62 Other disorders of muscle
- M63? Disorders of muscle in diseases classified elsewhere

Disorders of synovium and tendon (M65-M68)

- M65 Synovitis and tenosynovitis
- M66 Spontaneous rupture of synovium and tendon
- M67 Other disorders of synovium and tendon
- M68? Disorders of synovium and tendon in diseases classified elsewhere

Other soft tissue disorders (M70-M79)

- M70 Soft tissue disorders related to use, overuse and pressure
- M71 Other bursopathies
- M72 Fibroblastic disorders
- M73? Soft tissue disorders in diseases classified elsewhere
- M75 Shoulder lesions
- M76 Enthesopathies of lower limb, excluding foot
- M77 Other enthesopathies
- M79 Other soft tissue disorders, not elsewhere classified

Osteopathies and chondropathies (M80-M94)

Disorders of bone density and structure (M80-M85)

- M80 Osteoporosis with pathological fracture
- M81 Osteoporosis without pathological fracture
- M82? Osteoporosis in diseases classified elsewhere
- M83 Adult osteomalacia

- M84 Disorders of continuity of bone
- M85 Other disorders of bone density and structure

Other osteopathies (M86-M90)

- M86 Osteomyelitis
- M87 Osteonecrosis
- M88 Paget's disease of bone [osteitis deformans]
- M89 Other disorders of bone
- M90? Osteopathies in diseases classified elsewhere

Chondropathies (M91-M94)

- M91 Juvenile osteochondrosis of hip and pelvis
- M92 Other juvenile osteochondrosis
- M93 Other osteochondropathies
- M94 Other disorders of cartilage

Other disorders of the musculoskeletal system and connective tissue (M95-M99)

- M95 Other acquired deformities of musculoskeletal system and connective tissue
- M96 Postprocedural musculoskeletal disorders, not elsewhere classified
- M99 Biomechanical lesions, not elsewhere classified

Chapter XIV

Diseases of the genitourinary system (N00-N99)

Glomerular diseases (N00-N08)

- N00 Acute nephritic syndrome
- N01 Rapidly progressive nephritic syndrome
- N02 Recurrent and persistent haematuria
- N03 Chronic nephritic syndrome
- N04 Nephrotic syndrome
- N05 Unspecified nephritic syndrome
- N06 Isolated proteinuria with specified morphological lesion
- N07 Hereditary nephropathy, not elsewhere classified
- N08? Glomerular disorders in diseases classified elsewhere

Renal tubulo-interstitial diseases (N10-N16)

- N10 Acute tubulo-interstitial nephritis
- N11 Chronic tubulo-interstitial nephritis
- N12 Tubulo-interstitial nephritis, not specified as acute or chronic
- N13 Obstructive and reflux uropathy
- N14 Drug- and heavy-metal-induced tubulo-interstitial and tubular conditions
- N15 Other renal tubulo-interstitial diseases
- N16? Renal tubulo-interstitial disorders in diseases classified elsewhere

Renal failure (N17-N19)

- N17 Acute renal failure
- N18 Chronic renal failure
- N19 Unspecified renal failure

Urolithiasis (N20-N23)

- N20 Calculus of kidney and ureter
- N21 Calculus of lower urinary tract

- N22? Calculus of urinary tract in diseases classified elsewhere
- N23 Unspecified renal colic

Other disorders of kidney and ureter (N25-N29)

- N25 Disorders resulting from impaired renal tubular function
- N26 Unspecified contracted kidney
- N27 Small kidney of unknown cause
- N28 Other disorders of kidney and ureter, not elsewhere classified
- N29? Other disorders of kidney and ureter in diseases classified elsewhere

Other diseases of urinary system (N30-N39)

- N30 Cystitis
- N31 Neuromuscular dysfunction of bladder, not elsewhere classified
- N32 Other disorders of bladder
- N33? Bladder disorders in diseases classified elsewhere
- N34 Urethritis and urethral syndrome
- N35 Urethral stricture
- N36 Other disorders of urethra
- N37? Urethral disorders in diseases classified elsewhere
- N39 Other disorders of urinary system

Diseases of male genital organs (N40-N51)

- N40 Hyperplasia of prostate
- N41 Inflammatory diseases of prostate
- N42 Other disorders of prostate
- N43 Hydrocele and spermatocele
- N44 Torsion of testis
- N45 Orchitis and epididymitis
- N46 Male infertility
- N47 Redundant prepuce, phimosis and paraphimosis
- N48 Other disorders of penis
- N49 Inflammatory disorders of male genital organs, not elsewhere classified
- N50 Other disorders of male genital organs
- N51? Disorders of male genital organs in diseases classified elsewhere

Disorders of breast (N60-N64)

- N60 Benign mammary dysplasia
- N61 Inflammatory disorders of breast
- N62 Hypertrophy of breast
- N63 Unspecified lump in breast
- N64 Other disorders of breast

Inflammatory diseases of female pelvic organs (N70-N77)

- N70 Salpingitis and oophoritis
- N71 Inflammatory disease of uterus, except cervix
- N72 Inflammatory disease of cervix uteri
- N73 Other female pelvic inflammatory diseases
- N74? Female pelvic inflammatory disorders in diseases classified elsewhere
- N75 Diseases of Bartholin's gland
- N76 Other inflammation of vagina and vulva
- N77? Vulvovaginal ulceration and inflammation in diseases classified elsewhere

Noninflammatory disorders of female genital tract (N80-N98)

- N80 Endometriosis
- N81 Female genital prolapse
- N82 Fistulae involving female genital tract
- N83 Noninflammatory disorders of ovary, fallopian tube and broad ligament
- N84 Polyp of female genital tract
- N85 Other noninflammatory disorders of uterus, except cervix
- N86 Erosion and ectropion of cervix uteri
- N87 Dysplasia of cervix uteri
- N88 Other noninflammatory disorders of cervix uteri
- N89 Other noninflammatory disorders of vagina
- N90 Other noninflammatory disorders of vulva and perineum
- N91 Absent, scanty and rare menstruation
- N92 Excessive, frequent and irregular menstruation
- N93 Other abnormal uterine and vaginal bleeding
- N94 Pain and other conditions associated with female genital organs and menstrual cycle
- N95 Menopausal and other perimenopausal disorders
- N96 Habitual aborter
- N97 Female infertility
- N98 Complications associated with artificial fertilization

Other disorders of the genitourinary system (N99)

- N99 Postprocedural disorders of genitourinary system, not elsewhere classified

Chapter XV

Pregnancy, childbirth and the puerperium (O00-O99)

Pregnancy with abortive outcome (O00-O08)

- O00 Ectopic pregnancy
- O01 Hydatidiform mole
- O02 Other abnormal products of conception
- O03 Spontaneous abortion
- O04 Medical abortion
- O05 Other abortion
- O06 Unspecified abortion
- O07 Failed attempted abortion
- O08 Complications following abortion and ectopic and molar pregnancy

Oedema, proteinuria and hypertensive disorders in pregnancy, childbirth and the puerperium (O10-O16)

- O10 Pre-existing hypertension complicating pregnancy, childbirth and the puerperium
- O11 Pre-existing hypertensive disorder with superimposed proteinuria
- O12 Gestational [pregnancy-induced] oedema and proteinuria without hypertension
- O13 Gestational [pregnancy-induced] hypertension without significant proteinuria
- O14 Gestational [pregnancy-induced] hypertension with significant proteinuria
- O15 Eclampsia
- O16 Unspecified maternal hypertension

Other maternal disorders predominantly related to pregnancy (O20-O29)

- O20 Haemorrhage in early pregnancy
- O21 Excessive vomiting in pregnancy
- O22 Venous complications in pregnancy

- O23 Infections of genitourinary tract in pregnancy
- O24 Diabetes mellitus in pregnancy
- O25 Malnutrition in pregnancy
- O26 Maternal care for other conditions predominantly related to pregnancy
- O28 Abnormal findings on antenatal screening of mother
- O29 Complications of anaesthesia during pregnancy

Maternal care related to the fetus and amniotic cavity and possible delivery problems (O30-O48)

- O30 Multiple gestation
- O31 Complications specific to multiple gestation
- O32 Maternal care for known or suspected malpresentation of fetus
- O33 Maternal care for known or suspected disproportion
- O34 Maternal care for known or suspected abnormality of pelvic organs
- O35 Maternal care for known or suspected fetal abnormality and damage
- O36 Maternal care for other known or suspected fetal problems
- O40 Polyhydramnios
- O41 Other disorders of amniotic fluid and membranes
- O42 Premature rupture of membranes
- O43 Placental disorders
- O44 Placenta praevia
- O45 Premature separation of placenta [abruptio placentae]
- O46 Antepartum haemorrhage, not elsewhere classified
- O47 False labour
- O48 Prolonged pregnancy

Complications of labour and delivery (O60-O75)

- O60 Preterm delivery
- O61 Failed induction of labour
- O62 Abnormalities of forces of labour
- O63 Long labour
- O64 Obstructed labour due to malposition and malpresentation of fetus
- O65 Obstructed labour due to maternal pelvic abnormality
- O66 Other obstructed labour
- O67 Labour and delivery complicated by intrapartum haemorrhage, not elsewhere classified
- O68 Labour and delivery complicated by fetal stress [distress]
- O69 Labour and delivery complicated by umbilical cord complications
- O70 Perineal laceration during delivery
- O71 Other obstetric trauma
- O72 Postpartum haemorrhage
- O73 Retained placenta and membranes, without haemorrhage
- O74 Complications of anaesthesia during labour and delivery
- O75 Other complications of labour and delivery, not elsewhere classified

Delivery (O80-O84)

- O80 Single spontaneous delivery
- O81 Single delivery by forceps and vacuum extractor
- O82 Single delivery by caesarean section
- O83 Other assisted single delivery
- O84 Multiple delivery

Complications predominantly related to the puerperium (O85-O92)

- O85 Puerperal sepsis
- O86 Other puerperal infections
- O87 Venous complications in the puerperium
- O88 Obstetric embolism
- O89 Complications of anaesthesia during the puerperium
- O90 Complications of the puerperium, not elsewhere classified
- O91 Infections of breast associated with childbirth
- O92 Other disorders of breast and lactation associated with childbirth

Other obstetric conditions, not elsewhere classified (O95-O99)

- O95 Obstetric death of unspecified cause
- O96 Death from any obstetric cause occurring more than 42 days but less than one year after delivery
- O97 Death from sequelae of direct obstetric causes
- O98 Maternal infectious and parasitic diseases classifiable elsewhere but complicating pregnancy, childbirth and the puerperium
- O99 Other maternal diseases classifiable elsewhere but complicating pregnancy, childbirth and the puerperium

Chapter XVI

Certain conditions originating in the perinatal period (P00-P96)

Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00-P04)

- P00 Fetus and newborn affected by maternal conditions that may be unrelated to present pregnancy
- P01 Fetus and newborn affected by maternal complications of pregnancy
- P02 Fetus and newborn affected by complications of placenta, cord and membranes
- P03 Fetus and newborn affected by other complications of labour and delivery
- P04 Fetus and newborn affected by noxious influences transmitted via placenta or breast milk

Disorders related to length of gestation and fetal growth (P05-P08)

- P05 Slow fetal growth and fetal malnutrition
- P07 Disorders related to short gestation and low birth weight, not elsewhere classified
- P08 Disorders related to long gestation and high birth weight

Birth trauma (P10-P15)

- P10 Intracranial laceration and haemorrhage due to birth injury
- P11 Other birth injuries to central nervous system
- P12 Birth injury to scalp
- P13 Birth injury to skeleton
- P14 Birth injury to peripheral nervous system
- P15 Other birth injuries

Respiratory and cardiovascular disorders specific to the perinatal period (P20-P29)

- P20 Intrauterine hypoxia
- P21 Birth asphyxia
- P22 Respiratory distress of newborn
- P23 Congenital pneumonia
- P24 Neonatal aspiration syndromes
- P25 Interstitial emphysema and related conditions originating in the perinatal period
- P26 Pulmonary haemorrhage originating in the perinatal period

- P27 Chronic respiratory disease originating in the perinatal period
- P28 Other respiratory conditions originating in the perinatal period
- P29 Cardiovascular disorders originating in the perinatal period

Infections specific to the perinatal period (P35-P39)

- P35 Congenital viral diseases
- P36 Bacterial sepsis of newborn
- P37 Other congenital infectious and parasitic diseases
- P38 Omphalitis of newborn with or without mild haemorrhage
- P39 Other infections specific to the perinatal period

Haemorrhagic and haematological disorders of fetus and newborn (P50-P61)

- P50 Fetal blood loss
- P51 Umbilical haemorrhage of newborn
- P52 Intracranial nontraumatic haemorrhage of fetus and newborn
- P53 Haemorrhagic disease of fetus and newborn
- P54 Other neonatal haemorrhages
- P55 Haemolytic disease of fetus and newborn
- P56 Hydrops fetalis due to haemolytic disease
- P57 Kernicterus
- P58 Neonatal jaundice due to other excessive haemolysis
- P59 Neonatal jaundice from other and unspecified causes
- P60 Disseminated intravascular coagulation of fetus and newborn
- P61 Other perinatal haematological disorders

Transitory endocrine and metabolic disorders specific to fetus and newborn (P70-P74)

- P70 Transitory disorders of carbohydrate metabolism specific to fetus and newborn
- P71 Transitory neonatal disorders of calcium and magnesium metabolism
- P72 Other transitory neonatal endocrine disorders
- P74 Other transitory neonatal electrolyte and metabolic disturbances

Digestive system disorders of fetus and newborn (P75-P78)

- P75? Meconium ileus
- P76 Other intestinal obstruction of newborn
- P77 Necrotizing enterocolitis of fetus and newborn
- P78 Other perinatal digestive system disorders

Conditions involving the integument and temperature regulation of fetus and newborn (P80-P83)

- P80 Hypothermia of newborn
- P81 Other disturbances of temperature regulation of newborn
- P83 Other conditions of integument specific to fetus and newborn

Other disorders originating in the perinatal period (P90-P96)

- P90 Convulsions of newborn
- P91 Other disturbances of cerebral status of newborn
- P92 Feeding problems of newborn
- P93 Reactions and intoxications due to drugs administered to fetus and newborn
- P94 Disorders of muscle tone of newborn
- P95 Fetal death of unspecified cause
- P96 Other conditions originating in the perinatal period

Chapter XVII

Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)

Congenital malformations of the nervous system (Q00-Q07)

- Q00 Anencephaly and similar malformations
- Q01 Encephalocele
- Q02 Microcephaly
- Q03 Congenital hydrocephalus
- Q04 Other congenital malformations of brain
- Q05 Spina bifida
- Q06 Other congenital malformations of spinal cord
- Q07 Other congenital malformations of nervous system

Congenital malformations of eye, ear, face and neck (Q10-Q18)

- Q10 Congenital malformations of eyelid, lacrimal apparatus and orbit
- Q11 Anophthalmos, microphthalmos and macrophthalmos
- Q12 Congenital lens malformations
- Q13 Congenital malformations of anterior segment of eye
- Q14 Congenital malformations of posterior segment of eye
- Q15 Other congenital malformations of eye
- Q16 Congenital malformations of ear causing impairment of hearing
- Q17 Other congenital malformations of ear
- Q18 Other congenital malformations of face and neck

Congenital malformations of the circulatory system (Q20-Q28)

- Q20 Congenital malformations of cardiac chambers and connections
- Q21 Congenital malformations of cardiac septa
- Q22 Congenital malformations of pulmonary and tricuspid valves
- Q23 Congenital malformations of aortic and mitral valves
- Q24 Other congenital malformations of heart
- Q25 Congenital malformations of great arteries
- Q26 Congenital malformations of great veins
- Q27 Other congenital malformations of peripheral vascular system
- Q28 Other congenital malformations of circulatory system

Congenital malformations of the respiratory system (Q30-Q34)

- Q30 Congenital malformations of nose
- Q31 Congenital malformations of larynx
- Q32 Congenital malformations of trachea and bronchus
- Q33 Congenital malformations of lung
- Q34 Other congenital malformations of respiratory system

Cleft lip and cleft palate (Q35-Q37)

- Q35 Cleft palate
- Q36 Cleft lip
- Q37 Cleft palate with cleft lip

Other congenital malformations of the digestive system (Q38-Q45)

- Q38 Other congenital malformations of tongue, mouth and pharynx
- Q39 Congenital malformations of oesophagus
- Q40 Other congenital malformations of upper alimentary tract
- Q41 Congenital absence, atresia and stenosis of small intestine
- Q42 Congenital absence, atresia and stenosis of large intestine

- Q43 Other congenital malformations of intestine
- Q44 Congenital malformations of gallbladder, bile ducts and liver
- Q45 Other congenital malformations of digestive system

Congenital malformations of genital organs (Q50-Q56)

- Q50 Congenital malformations of ovaries, fallopian tubes and broad ligaments
- Q51 Congenital malformations of uterus and cervix
- Q52 Other congenital malformations of female genitalia
- Q53 Undescended testicle
- Q54 Hypospadias
- Q55 Other congenital malformations of male genital organs
- Q56 Indeterminate sex and pseudohermaphroditism

Congenital malformations of the urinary system (Q60-Q64)

- Q60 Renal agenesis and other reduction defects of kidney
- Q61 Cystic kidney disease
- Q62 Congenital obstructive defects of renal pelvis and congenital malformations of ureter
- Q63 Other congenital malformations of kidney
- Q64 Other congenital malformations of urinary system

Congenital malformations and deformations of the musculoskeletal system (Q65-Q79)

- Q65 Congenital deformities of hip
- Q66 Congenital deformities of feet
- Q67 Congenital musculoskeletal deformities of head, face, spine and chest
- Q68 Other congenital musculoskeletal deformities
- Q69 Polydactyly
- Q70 Syndactyly
- Q71 Reduction defects of upper limb
- Q72 Reduction defects of lower limb
- Q73 Reduction defects of unspecified limb
- Q74 Other congenital malformations of limb(s)
- Q75 Other congenital malformations of skull and face bones
- Q76 Congenital malformations of spine and bony thorax
- Q77 Osteochondrodysplasia with defects of growth of tubular bones and spine
- Q78 Other osteochondrodysplasias
- Q79 Congenital malformations of the musculoskeletal system, not elsewhere classified

Other congenital malformations (Q80-Q89)

- Q80 Congenital ichthyosis
- Q81 Epidermolysis bullosa
- Q82 Other congenital malformations of skin
- Q83 Congenital malformations of breast
- Q84 Other congenital malformations of integument
- Q85 Phakomatoses, not elsewhere classified
- Q86 Congenital malformation syndromes due to known exogenous causes, not elsewhere classified
- Q87 Other specified congenital malformation syndromes affecting multiple systems
- Q89 Other congenital malformations, not elsewhere classified

Chromosomal abnormalities, not elsewhere classified (Q90-Q99)

- Q90 Down's syndrome
- Q91 Edwards' syndrome and Patau's syndrome
- Q92 Other trisomies and partial trisomies of the autosomes, not elsewhere classified
- Q93 Monosomies and deletions from the autosomes, not elsewhere classified

- Q95 Balanced rearrangements and structural markers, not elsewhere classified
- Q96 Turner's syndrome
- Q97 Other sex chromosome abnormalities, female phenotype, not elsewhere classified
- Q98 Other sex chromosome abnormalities, male phenotype, not elsewhere classified
- Q99 Other chromosome abnormalities, not elsewhere classified

Chapter XVIII

Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)

Symptoms and signs involving the circulatory and respiratory systems (R00-R09)

- R00 Abnormalities of heart beat
- R01 Cardiac murmurs and other cardiac sounds
- R02 Gangrene, not elsewhere classified
- R03 Abnormal blood-pressure reading, without diagnosis
- R04 Haemorrhage from respiratory passages
- R05 Cough
- R06 Abnormalities of breathing
- R07 Pain in throat and chest
- R09 Other symptoms and signs involving the circulatory and respiratory systems

Symptoms and signs involving the digestive system and abdomen (R10-R19)

- R10 Abdominal and pelvic pain
- R11 Nausea and vomiting
- R12 Heartburn
- R13 Dysphagia
- R14 Flatulence and related conditions
- R15 Faecal incontinence
- R16 Hepatomegaly and splenomegaly, not elsewhere classified
- R17 Unspecified jaundice
- R18 Ascites
- R19 Other symptoms and signs involving the digestive system and abdomen

Symptoms and signs involving the skin and subcutaneous tissue (R20-R23)

- R20 Disturbances of skin sensation
- R21 Rash and other nonspecific skin eruption
- R22 Localized swelling, mass and lump of skin and subcutaneous tissue
- R23 Other skin changes

Symptoms and signs involving the nervous and musculoskeletal systems (R25-R29)

- R25 Abnormal involuntary movements
- R26 Abnormalities of gait and mobility
- R27 Other lack of coordination
- R29 Other symptoms and signs involving the nervous and musculoskeletal systems

Symptoms and signs involving the urinary system (R30-R39)

- R30 Pain associated with micturition
- R31 Unspecified haematuria
- R32 Unspecified urinary incontinence
- R33 Retention of urine
- R34 Anuria and oliguria
- R35 Polyuria
- R36 Urethral discharge
- R39 Other symptoms and signs involving the urinary system

Symptoms and signs involving cognition, perception, emotional state and behaviour (R40-R46)

- R40 Somnolence, stupor and coma
- R41 Other symptoms and signs involving cognitive functions and awareness
- R42 Dizziness and giddiness
- R43 Disturbances of smell and taste
- R44 Other symptoms and signs involving general sensations and perceptions
- R45 Symptoms and signs involving emotional state
- R46 Symptoms and signs involving appearance and behaviour

Symptoms and signs involving speech and voice (R47-R49)

- R47 Speech disturbances, not elsewhere classified
- R48 Dyslexia and other symbolic dysfunctions, not elsewhere classified
- R49 Voice disturbances

General symptoms and signs (R50-R69)

- R50 Fever of unknown origin
- R51 Headache
- R52 Pain, not elsewhere classified
- R53 Malaise and fatigue
- R54 Senility
- R55 Syncope and collapse
- R56 Convulsions, not elsewhere classified
- R57 Shock, not elsewhere classified
- R58 Haemorrhage, not elsewhere classified
- R59 Enlarged lymph nodes
- R60 Oedema, not elsewhere classified
- R61 Hyperhidrosis
- R62 Lack of expected normal physiological development
- R63 Symptoms and signs concerning food and fluid intake
- R64 Cachexia
- R68 Other general symptoms and signs
- R69 Unknown and unspecified causes of morbidity

Abnormal findings on examination of blood, without diagnosis (R70-R79)

- R70 Elevated erythrocyte sedimentation rate and abnormality of plasma viscosity
- R71 Abnormality of red blood cells
- R72 Abnormality of white blood cells, not elsewhere classified
- R73 Elevated blood glucose level
- R74 Abnormal serum enzyme levels
- R75 Laboratory evidence of human immunodeficiency virus [HIV]
- R76 Other abnormal immunological findings in serum
- R77 Other abnormalities of plasma proteins
- R78 Findings of drugs and other substances, not normally found in blood
- R79 Other abnormal findings of blood chemistry

Abnormal findings on examination of urine, without diagnosis (R80-R82)

- R80 Isolated proteinuria
- R81 Glycosuria
- R82 Other abnormal findings in urine

Abnormal findings on examination of other body fluids, substances and tissues, without diagnosis (R83-R89)

- R83 Abnormal findings in cerebrospinal fluid
- R84 Abnormal findings in specimens from respiratory organs and thorax
- R85 Abnormal findings in specimens from digestive organs and abdominal cavity
- R86 Abnormal findings in specimens from male genital organs
- R87 Abnormal findings in specimens from female genital organs
- R89 Abnormal findings in specimens from other organs, systems and tissues

Abnormal findings on diagnostic imaging and in function studies, without diagnosis (R90-R94)

- R90 Abnormal findings on diagnostic imaging of central nervous system
- R91 Abnormal findings on diagnostic imaging of lung
- R92 Abnormal findings on diagnostic imaging of breast
- R93 Abnormal findings on diagnostic imaging of other body structures
- R94 Abnormal results of function studies

Ill-defined and unknown causes of mortality (R95-R99)

- R95 Sudden infant death syndrome
- R96 Other sudden death, cause unknown
- R98 Unattended death
- R99 Other ill-defined and unspecified causes of mortality

Chapter XIX

Injury, poisoning and certain other consequences of external causes (S00-T98)

Injuries to the head (S00-S09)

- S00 Superficial injury of head
- S01 Open wound of head
- S02 Fracture of skull and facial bones
- S03 Dislocation, sprain and strain of joints and ligaments of head
- S04 Injury of cranial nerves
- S05 Injury of eye and orbit
- S06 Intracranial injury
- S07 Crushing injury of head
- S08 Traumatic amputation of part of head
- S09 Other and unspecified injuries of head

Injuries to the neck (S10-S19)

- S10 Superficial injury of neck
- S11 Open wound of neck
- S12 Fracture of neck
- S13 Dislocation, sprain and strain of joints and ligaments at neck level
- S14 Injury of nerves and spinal cord at neck level
- S15 Injury of blood vessels at neck level
- S16 Injury of muscle and tendon at neck level
- S17 Crushing injury of neck
- S18 Traumatic amputation at neck level
- S19 Other and unspecified injuries of neck

Injuries to the thorax (S20-S29)

- S20 Superficial injury of thorax
- S21 Open wound of thorax

- S22 Fracture of rib(s), sternum and thoracic spine
- S23 Dislocation, sprain and strain of joints and ligaments of thorax
- S24 Injury of nerves and spinal cord at thorax level
- S25 Injury of blood vessels of thorax
- S26 Injury of heart
- S27 Injury of other and unspecified intrathoracic organs
- S28 Crushing injury of thorax and traumatic amputation of part of thorax
- S29 Other and unspecified injuries of thorax

Injuries to the abdomen, lower back, lumbar spine and pelvis (S30-S39)

- S30 Superficial injury of abdomen, lower back and pelvis
- S31 Open wound of abdomen, lower back and pelvis
- S32 Fracture of lumbar spine and pelvis
- S33 Dislocation, sprain and strain of joints and ligaments of lumbar spine and pelvis
- S34 Injury of nerves and lumbar spinal cord at abdomen, lower back and pelvis level
- S35 Injury of blood vessels at abdomen, lower back and pelvis level
- S36 Injury of intra-abdominal organs
- S37 Injury of urinary and pelvic organs
- S38 Crushing injury and traumatic amputation of part of abdomen, lower back and pelvis
- S39 Other and unspecified injuries of abdomen, lower back and pelvis

Injuries to the shoulder and upper arm (S40-S49)

- S40 Superficial injury of shoulder and upper arm
- S41 Open wound of shoulder and upper arm
- S42 Fracture of shoulder and upper arm
- S43 Dislocation, sprain and strain of joints and ligaments of shoulder girdle
- S44 Injury of nerves at shoulder and upper arm level
- S45 Injury of blood vessels at shoulder and upper arm level
- S46 Injury of muscle and tendon at shoulder and upper arm level
- S47 Crushing injury of shoulder and upper arm
- S48 Traumatic amputation of shoulder and upper arm
- S49 Other and unspecified injuries of shoulder and upper arm

Injuries to the elbow and forearm (S50-S59)

- S50 Superficial injury of forearm
- S51 Open wound of forearm
- S52 Fracture of forearm
- S53 Dislocation, sprain and strain of joints and ligaments of elbow
- S54 Injury of nerves at forearm level
- S55 Injury of blood vessels at forearm level
- S56 Injury of muscle and tendon at forearm level
- S57 Crushing injury of forearm
- S58 Traumatic amputation of forearm
- S59 Other and unspecified injuries of forearm

Injuries to the wrist and hand (S60-S69)

- S60 Superficial injury of wrist and hand
- S61 Open wound of wrist and hand
- S62 Fracture at wrist and hand level
- S63 Dislocation, sprain and strain of joints and ligaments at wrist and hand level
- S64 Injury of nerves at wrist and hand level
- S65 Injury of blood vessels at wrist and hand level
- S66 Injury of muscle and tendon at wrist and hand level

- S67 Crushing injury of wrist and hand
- S68 Traumatic amputation of wrist and hand
- S69 Other and unspecified injuries of wrist and hand

Injuries to the hip and thigh (S70-S79)

- S70 Superficial injury of hip and thigh
- S71 Open wound of hip and thigh
- S72 Fracture of femur
- S73 Dislocation, sprain and strain of joint and ligaments of hip
- S74 Injury of nerves at hip and thigh level
- S75 Injury of blood vessels at hip and thigh level
- S76 Injury of muscle and tendon at hip and thigh level
- S77 Crushing injury of hip and thigh
- S78 Traumatic amputation of hip and thigh
- S79 Other and specified injuries of hip and thigh

Injuries to the knee and lower leg (S80-S89)

- S80 Superficial injury of lower leg
- S81 Open wound of lower leg
- S82 Fracture of lower leg, including ankle
- S83 Dislocation, sprain and strain of joints and ligaments of knee
- S84 Injury of nerves at lower leg level
- S85 Injury of blood vessels at lower leg level
- S86 Injury of muscle and tendon at lower leg level
- S87 Crushing injury of lower leg
- S88 Traumatic amputation of lower leg
- S89 Other and unspecified injuries of lower leg

Injuries to the ankle and foot (S90-S99)

- S90 Superficial injury of ankle and foot
- S91 Open wound of ankle and foot
- S92 Fracture of foot, except ankle
- S93 Dislocation, sprain and strain of joints and ligaments at ankle and foot level
- S94 Injury of nerves at ankle and foot level
- S95 Injury of blood vessels at ankle and foot level
- S96 Injury of muscle and tendon at ankle and foot level
- S97 Crushing injury of ankle and foot
- S98 Traumatic amputation of ankle and foot
- S99 Other and unspecified injuries of ankle and foot

Injuries involving multiple body regions (T00-T07)

- T00 Superficial injuries involving multiple body regions
- T01 Open wounds involving multiple body regions
- T02 Fractures involving multiple body regions
- T03 Dislocations, sprains and strains involving multiple body regions
- T04 Crushing injuries involving multiple body regions
- T05 Traumatic amputations involving multiple body regions
- T06 Other injuries involving multiple body regions, not elsewhere classified
- T07 Unspecified multiple injuries

Injuries to unspecified part of trunk, limb or body region (T08-T14)

- T08 Fracture of spine, level unspecified
- T09 Other injuries of spine and trunk, level unspecified
- T10 Fracture of upper limb, level unspecified

- T11 Other injuries of upper limb, level unspecified
- T12 Fracture of lower limb, level unspecified
- T13 Other injuries of lower limb, level unspecified
- T14 Injury of unspecified body region

Effects of foreign body entering through natural orifice (T15-T19)

- T15 Foreign body on external eye
- T16 Foreign body in ear
- T17 Foreign body in respiratory tract
- T18 Foreign body in alimentary tract
- T19 Foreign body in genitourinary tract

Burns and corrosions (T20-T32)

Burns and corrosions of external body surface, specified by site (T20-T25)

- T20 Burn and corrosion of head and neck
- T21 Burn and corrosion of trunk
- T22 Burn and corrosion of shoulder and upper limb, except wrist and hand
- T23 Burn and corrosion of wrist and hand
- T24 Burn and corrosion of hip and lower limb, except ankle and foot
- T25 Burn and corrosion of ankle and foot

Burns and corrosions confined to eye and internal organs (T26-T28)

- T26 Burn and corrosion confined to eye and adnexa
- T27 Burn and corrosion of respiratory tract
- T28 Burn and corrosion of other internal organs

Burns and corrosions of multiple and unspecified body regions (T29-T32)

- T29 Burns and corrosions of multiple body regions
- T30 Burn and corrosion, body region unspecified
- T31 Burns classified according to extent of body surface involved
- T32 Corrosions classified according to extent of body surface involved

Frostbite (T33-T35)

- T33 Superficial frostbite
- T34 Frostbite with tissue necrosis
- T35 Frostbite involving multiple body regions and unspecified frostbite

Poisoning by drugs, medicaments and biological substances (T36-T50)

- T36 Poisoning by systemic antibiotics
- T37 Poisoning by other systemic anti-infectives and antiparasitics
- T38 Poisoning by hormones and their synthetic substitutes and antagonists, not elsewhere classified
- T39 Poisoning by nonopioid analgesics, antipyretics and antirheumatics
- T40 Poisoning by narcotics and psychodysleptics [hallucinogens]
- T41 Poisoning by anaesthetics and therapeutic gases
- T42 Poisoning by antiepileptic, sedative-hypnotic and antiparkinsonism drugs
- T43 Poisoning by psychotropic drugs, not elsewhere classified
- T44 Poisoning by drugs primarily affecting the autonomic nervous system
- T45 Poisoning by primarily systemic and haematological agents, not elsewhere classified
- T46 Poisoning by agents primarily affecting the cardiovascular system
- T47 Poisoning by agents primarily affecting the gastrointestinal system
- T48 Poisoning by agents primarily acting on smooth and skeletal muscles and the respiratory system

- T49 Poisoning by topical agents primarily affecting skin and mucous membrane and by ophthalmological, otorhinolaryngological and dental drugs
- T50 Poisoning by diuretics and other and unspecified drugs, medicaments and biological substances

Toxic effects of substances chiefly nonmedicinal as to source (T51-T65)

- T51 Toxic effect of alcohol
- T52 Toxic effect of organic solvents
- T53 Toxic effect of halogen derivatives of aliphatic and aromatic hydrocarbons
- T54 Toxic effect of corrosive substances
- T55 Toxic effect of soaps and detergents
- T56 Toxic effect of metals
- T57 Toxic effect of other inorganic substances
- T58 Toxic effect of carbon monoxide
- T59 Toxic effect of other gases, fumes and vapours
- T60 Toxic effect of pesticides
- T61 Toxic effect of noxious substances eaten as seafood
- T62 Toxic effect of other noxious substances eaten as food
- T63 Toxic effect of contact with venomous animals
- T64 Toxic effect of aflatoxin and other mycotoxin food contaminants
- T65 Toxic effect of other and unspecified substances

Other and unspecified effects of external causes (T66-T78)

- T66 Unspecified effects of radiation
- T67 Effects of heat and light
- T68 Hypothermia
- T69 Other effects of reduced temperature
- T70 Effects of air pressure and water pressure
- T71 Asphyxiation
- T73 Effects of other deprivation
- T74 Maltreatment syndromes
- T75 Effects of other external causes
- T78 Adverse effects, not elsewhere classified

Certain early complications of trauma (T79)

- T79 Certain early complications of trauma, not elsewhere classified

Complications of surgical and medical care, not elsewhere classified (T80-T88)

- T80 Complications following infusion, transfusion and therapeutic injection
- T81 Complications of procedures, not elsewhere classified
- T82 Complications of cardiac and vascular prosthetic devices, implants and grafts
- T83 Complications of genitourinary prosthetic devices, implants and grafts
- T84 Complications of internal orthopaedic prosthetic devices, implants and grafts
- T85 Complications of other internal prosthetic devices, implants and grafts
- T86 Failure and rejection of transplanted organs and tissues
- T87 Complications peculiar to reattachment and amputation
- T88 Other complications of surgical and medical care, not elsewhere classified

Sequelae of injuries, of poisoning and of other consequences of external causes (T90-T98)

- T90 Sequelae of injuries of head
- T91 Sequelae of injuries of neck and trunk
- T92 Sequelae of injuries of upper limb
- T93 Sequelae of injuries of lower limb
- T94 Sequelae of injuries involving multiple and unspecified body regions

- T95 Sequelae of burns, corrosions and frostbite
- T96 Sequelae of poisoning by drugs, medicaments and biological substances
- T97 Sequelae of toxic effects of substances chiefly nonmedicinal as to source
- T98 Sequelae of other and unspecified effects of external causes

Chapter XX

External causes of morbidity and mortality (V01-Y98)

Transport accidents (V01-V99)

Pedestrian injured in transport accident (V01-V09)

- V01 Pedestrian injured in collision with pedal cycle
- V02 Pedestrian injured in collision with two- or three-wheeled motor vehicle
- V03 Pedestrian injured in collision with car, pick-up truck or van
- V04 Pedestrian injured in collision with heavy transport vehicle or bus
- V05 Pedestrian injured in collision with railway train or railway vehicle
- V06 Pedestrian injured in collision with other nonmotor vehicle
- V09 Pedestrian injured in other and unspecified transport accidents

Pedal cyclist injured in transport accident (V10-V19)

- V10 Pedal cyclist injured in collision with pedestrian or animal
- V11 Pedal cyclist injured in collision with other pedal cycle
- V12 Pedal cyclist injured in collision with two- or three-wheeled motor vehicle
- V13 Pedal cyclist injured in collision with car, pick-up truck or van
- V14 Pedal cyclist injured in collision with heavy transport vehicle or bus
- V15 Pedal cyclist injured in collision with railway train or railway vehicle
- V16 Pedal cyclist injured in collision with other nonmotor vehicle
- V17 Pedal cyclist injured in collision with fixed or stationary object
- V18 Pedal cyclist injured in noncollision transport accident
- V19 Pedal cyclist injured in other and unspecified transport accidents

Motorcycle rider injured in transport accident (V20-V29)

- V20 Motorcycle rider injured in collision with pedestrian or animal
- V21 Motorcycle rider injured in collision with pedal cycle
- V22 Motorcycle rider injured in collision with two- or three-wheeled motor vehicle
- V23 Motorcycle rider injured in collision with car, pick-up truck or van
- V24 Motorcycle rider injured in collision with heavy transport vehicle or bus
- V25 Motorcycle rider injured in collision with railway train or railway vehicle
- V26 Motorcycle rider injured in collision with other nonmotor vehicle
- V27 Motorcycle rider injured in collision with fixed or stationary object
- V28 Motorcycle rider injured in noncollision transport accident
- V29 Motorcycle rider injured in other and unspecified transport accidents

Occupant of three-wheeled motor vehicle injured in transport accident (V30-V39)

- V30 Occupant of three-wheeled motor vehicle injured in collision with pedestrian or animal
- V31 Occupant of three-wheeled motor vehicle injured in collision with pedal cycle
- V32 Occupant of three-wheeled motor vehicle injured in collision with two- or three-wheeled motor vehicle
- V33 Occupant of three-wheeled motor vehicle injured in collision with car, pick-up truck or van
- V34 Occupant of three-wheeled motor vehicle injured in collision with heavy transport vehicle or bus

- V35 Occupant of three-wheeled motor vehicle injured in collision with railway train or railway vehicle
- V36 Occupant of three-wheeled motor vehicle injured in collision with other nonmotor vehicle
- V37 Occupant of three-wheeled motor vehicle injured in collision with fixed or stationary object
- V38 Occupant of three-wheeled motor vehicle injured in noncollision transport accident
- V39 Occupant of three-wheeled motor vehicle injured in other and unspecified transport accidents

Car occupant injured in transport accident (V40-V49)

- V40 Car occupant injured in collision with pedestrian or animal
- V41 Car occupant injured in collision with pedal cycle
- V42 Car occupant injured in collision with two- or three-wheeled motor vehicle
- V43 Car occupant injured in collision with car, pick-up truck or van
- V44 Car occupant injured in collision with heavy transport vehicle or bus
- V45 Car occupant injured in collision with railway train or railway vehicle
- V46 Car occupant injured in collision with other nonmotor vehicle
- V47 Car occupant injured in collision with fixed or stationary object
- V48 Car occupant injured in noncollision transport accident
- V49 Car occupant injured in other and unspecified transport accidents

Occupant of pick-up truck or van injured in transport accident (V50-V59)

- V50 Occupant of pick-up truck or van injured in collision with pedestrian or animal
- V51 Occupant of pick-up truck or van injured in collision with pedal cycle
- V52 Occupant of pick-up truck or van injured in collision with two- or three-wheeled motor vehicle
- V53 Occupant of pick-up truck or van injured in collision with car, pick-up truck or van
- V54 Occupant of pick-up truck or van injured in collision with heavy transport vehicle or bus
- V55 Occupant of pick-up truck or van injured in collision with railway train or railway vehicle
- V56 Occupant of pick-up truck or van injured in collision with other nonmotor vehicle
- V57 Occupant of pick-up truck or van injured in collision with fixed or stationary object
- V58 Occupant of pick-up truck or van injured in noncollision transport accident
- V59 Occupant of pick-up truck or van injured in other and unspecified transport accidents

Occupant of heavy transport vehicle injured in transport accident (V60-V69)

- V60 Occupant of heavy transport vehicle injured in collision with pedestrian or animal
- V61 Occupant of heavy transport vehicle injured in collision with pedal cycle
- V62 Occupant of heavy transport vehicle injured in collision with two- or three-wheeled motor vehicle
- V63 Occupant of heavy transport vehicle injured in collision with car, pick-up truck or van
- V64 Occupant of heavy transport vehicle injured in collision with heavy transport vehicle or bus
- V65 Occupant of heavy transport vehicle injured in collision with railway train or railway vehicle
- V66 Occupant of heavy transport vehicle injured in collision with other nonmotor vehicle
- V67 Occupant of heavy transport vehicle injured in collision with fixed or stationary object
- V68 Occupant of heavy transport vehicle injured in noncollision transport accident
- V69 Occupant of heavy transport vehicle injured in other and unspecified transport accidents

Bus occupant injured in transport accident (V70-V79)

- V70 Bus occupant injured in collision with pedestrian or animal
- V71 Bus occupant injured in collision with pedal cycle
- V72 Bus occupant injured in collision with two- or three-wheeled motor vehicle

- V73 Bus occupant injured in collision with car, pick-up truck or van
- V74 Bus occupant injured in collision with heavy transport vehicle or bus
- V75 Bus occupant injured in collision with railway train or railway vehicle
- V76 Bus occupant injured in collision with other nonmotor vehicle
- V77 Bus occupant injured in collision with fixed or stationary object
- V78 Bus occupant injured in noncollision transport accident
- V79 Bus occupant injured in other and unspecified transport accidents

Other land transport accidents (V80-V89)

- V80 Animal-rider or occupant of animal-drawn vehicle injured in transport accident
- V81 Occupant of railway train or railway vehicle injured in transport accident
- V82 Occupant of streetcar injured in transport accident
- V83 Occupant of special vehicle mainly used on industrial premises injured in transport accident
- V84 Occupant of special vehicle mainly used in agriculture injured in transport accident
- V85 Occupant of special construction vehicle injured in transport accident
- V86 Occupant of special all-terrain or other motor vehicle designed primarily for off-road use, injured in transport accident
- V87 Traffic accident of specified type but victim's mode of transport unknown
- V88 Nontraffic accident of specified type but victim's mode of transport unknown
- V89 Motor- or nonmotor-vehicle accident, type of vehicle unspecified

Water transport accidents (V90-V94)

- V90 Accident to watercraft causing drowning and submersion
- V91 Accident to watercraft causing other injury
- V92 Water-transport-related drowning and submersion without accident to watercraft
- V93 Accident on board watercraft without accident to watercraft, not causing drowning and submersion
- V94 Other and unspecified water transport accidents

Air and space transport accidents (V95-V97)

- V95 Accident to powered aircraft causing injury to occupant
- V96 Accident to nonpowered aircraft causing injury to occupant
- V97 Other specified air transport accidents

Other and unspecified transport accidents (V98-V99)

- V98 Other specified transport accidents
- V99 Unspecified transport accident

Other external causes of accidental injury (W00-X59)

Falls (w00-w19)

- W00 Fall on same level involving ice and snow
- W01 Fall on same level from slipping, tripping and stumbling
- W02 Fall involving ice-skates, skis, roller-skates or skateboards
- W03 Other fall on same level due to collision with, or pushing by, another person
- W04 Fall while being carried or supported by other persons
- W05 Fall involving wheelchair
- W06 Fall involving bed
- W07 Fall involving chair
- W08 Fall involving other furniture
- W09 Fall involving playground equipment
- W10 Fall on and from stairs and steps
- W11 Fall on and from ladder

- W12 Fall on and from scaffolding
- W13 Fall from, out of or through building or structure
- W14 Fall from tree
- W15 Fall from cliff
- W16 Diving or jumping into water causing injury other than drowning or submersion
- W17 Other fall from one level to another
- W18 Other fall on same level
- W19 Unspecified fall

Exposure to inanimate mechanical forces (w20-w49)

- W20 Struck by thrown, projected or falling object
- W21 Striking against or struck by sports equipment
- W22 Striking against or struck by other objects
- W23 Caught, crushed, jammed or pinched in or between objects
- W24 Contact with lifting and transmission devices, not elsewhere classified
- W25 Contact with sharp glass
- W26 Contact with knife, sword or dagger
- W27 Contact with nonpowered hand tool
- W28 Contact with powered lawnmower
- W29 Contact with other powered hand tools and household machinery
- W30 Contact with agricultural machinery
- W31 Contact with other and unspecified machinery
- W32 Handgun discharge
- W33 Rifle, shotgun and larger firearm discharge
- W34 Discharge from other and unspecified firearms
- W35 Explosion and rupture of boiler
- W36 Explosion and rupture of gas cylinder
- W37 Explosion and rupture of pressurized tyre, pipe or hose
- W38 Explosion and rupture of other specified pressurized devices
- W39 Discharge of firework
- W40 Explosion of other materials
- W41 Exposure to high-pressure jet
- W42 Exposure to noise
- W43 Exposure to vibration
- W44 Foreign body entering into or through eye or natural orifice
- W45 Foreign body or object entering through skin
- W49 Exposure to other and unspecified inanimate mechanical forces

Exposure to animate mechanical forces (w50-w64)

- W50 Hit, struck, kicked, twisted, bitten or scratched by another person
- W51 Striking against or bumped into by another person
- W52 Crushed, pushed or stepped on by crowd or human stampede
- W53 Bitten by rat
- W54 Bitten or struck by dog
- W55 Bitten or struck by other mammals
- W56 Contact with marine animal
- W57 Bitten or stung by nonvenomous insect and other nonvenomous arthropods
- W58 Bitten or struck by crocodile or alligator
- W59 Bitten or crushed by other reptiles
- W60 Contact with plant thorns and spines and sharp leaves
- W64 Exposure to other and unspecified animate mechanical forces

Accidental drowning and submersion (W65-W74)

- W65 Drowning and submersion while in bath-tub
- W66 Drowning and submersion following fall into bath-tub
- W67 Drowning and submersion while in swimming-pool
- W68 Drowning and submersion following fall into swimming-pool
- W69 Drowning and submersion while in natural water
- W70 Drowning and submersion following fall into natural water
- W73 Other specified drowning and submersion
- W74 Unspecified drowning and submersion

Other accidental threats to breathing (w75-w84)

- W75 Accidental suffocation and strangulation in bed
- W76 Other accidental hanging and strangulation
- W77 Threat to breathing due to cave-in, falling earth and other substances
- W78 Inhalation of gastric contents
- W79 Inhalation and ingestion of food causing obstruction of respiratory tract
- W80 Inhalation and ingestion of other objects causing obstruction of respiratory tract
- W81 Confined to or trapped in a low-oxygen environment
- W83 Other specified threats to breathing
- W84 Unspecified threat to breathing

Exposure to electric current, radiation and extreme ambient air temperature and pressure (W85-W99)

- W85 Exposure to electric transmission lines
- W86 Exposure to other specified electric current
- W87 Exposure to unspecified electric current
- W88 Exposure to ionizing radiation
- W89 Exposure to man-made visible and ultraviolet light
- W90 Exposure to other nonionizing radiation
- W91 Exposure to unspecified type of radiation
- W92 Exposure to excessive heat of man-made origin
- W93 Exposure to excessive cold of man-made origin
- W94 Exposure to high and low air pressure and changes in air pressure
- W99 Exposure to other and unspecified man-made environmental factors

Exposure to smoke, fire and flames (X00-X09)

- X00 Exposure to uncontrolled fire in building or structure
- X01 Exposure to uncontrolled fire, not in building or structure
- X02 Exposure to controlled fire in building or structure
- X03 Exposure to controlled fire, not in building or structure
- X04 Exposure to ignition of highly flammable material
- X05 Exposure to ignition or melting of nightwear
- X06 Exposure to ignition or melting of other clothing and apparel
- X08 Exposure to other specified smoke, fire and flames
- X09 Exposure to unspecified smoke, fire and flames

Contact with heat and hot substances (X10-X19)

- X10 Contact with hot drinks, food, fats and cooking oils
- X11 Contact with hot tap-water
- X12 Contact with other hot fluids
- X13 Contact with steam and hot vapours
- X14 Contact with hot air and gases
- X15 Contact with hot household appliances

- X16 Contact with hot heating appliances, radiators and pipes
- X17 Contact with hot engines, machinery and tools
- X18 Contact with other hot metals
- X19 Contact with other and unspecified heat and hot substances

Contact with venomous animals and plants (X20-X29)

- X20 Contact with venomous snakes and lizards
- X21 Contact with venomous spiders
- X22 Contact with scorpions
- X23 Contact with hornets, wasps and bees
- X24 Contact with centipedes and venomous millipedes (tropical)
- X25 Contact with other specified venomous arthropods
- X26 Contact with venomous marine animals and plants
- X27 Contact with other specified venomous animals
- X28 Contact with other specified venomous plants
- X29 Contact with unspecified venomous animal or plant

Exposure to forces of nature (X30-X39)

- X30 Exposure to excessive natural heat
- X31 Exposure to excessive natural cold
- X32 Exposure to sunlight
- X33 Victim of lightning
- X34 Victim of earthquake
- X35 Victim of volcanic eruption
- X36 Victim of avalanche, landslide and other earth movements
- X37 Victim of cataclysmic storm
- X38 Victim of flood
- X39 Exposure to other and unspecified forces of nature

Accidental poisoning by and exposure to noxious substances (X40-X49)

- X40 Accidental poisoning by and exposure to nonopioid analgesics, antipyretics and antirheumatics
- X41 Accidental poisoning by and exposure to antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified
- X42 Accidental poisoning by and exposure to narcotics and psychodysleptics [hallucinogens], not elsewhere classified
- X43 Accidental poisoning by and exposure to other drugs acting on the autonomic nervous system
- X44 Accidental poisoning by and exposure to other and unspecified drugs, medicaments and biological substances
- X45 Accidental poisoning by and exposure to alcohol
- X46 Accidental poisoning by and exposure to organic solvents and halogenated hydrocarbons and their vapours
- X47 Accidental poisoning by and exposure to other gases and vapours
- X48 Accidental poisoning by and exposure to pesticides
- X49 Accidental poisoning by and exposure to other and unspecified chemicals and noxious substances

Overexertion, travel and privation (X50-X57)

- X50 Overexertion and strenuous or repetitive movements
- X51 Travel and motion
- X52 Prolonged stay in weightless environment
- X53 Lack of food

- X54 Lack of water
- X57 Unspecified privation

Accidental exposure to other and unspecified factors (X58-X59)

- X58 Exposure to other specified factors
- X59 Exposure to unspecified factor

Intentional self-harm (X60-X84)

- X60 Intentional self-poisoning by and exposure to nonopioid analgesics, antipyretics and antirheumatics
- X61 Intentional self-poisoning by and exposure to antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified
- X62 Intentional self-poisoning by and exposure to narcotics and psychodysleptics [hallucinogens], not elsewhere classified
- X63 Intentional self-poisoning by and exposure to other drugs acting on the autonomic nervous system
- X64 Intentional self-poisoning by and exposure to other and unspecified drugs, medicaments and biological substances
- X65 Intentional self-poisoning by and exposure to alcohol
- X66 Intentional self-poisoning by and exposure to organic solvents and halogenated hydrocarbons and their vapours
- X67 Intentional self-poisoning by and exposure to other gases and vapours
- X68 Intentional self-poisoning by and exposure to pesticides
- X69 Intentional self-poisoning by and exposure to other and unspecified chemicals and noxious substances
- X70 Intentional self-harm by hanging, strangulation and suffocation
- X71 Intentional self-harm by drowning and submersion
- X72 Intentional self-harm by handgun discharge
- X73 Intentional self-harm by rifle, shotgun and larger firearm discharge
- X74 Intentional self-harm by other and unspecified firearm discharge
- X75 Intentional self-harm by explosive material
- X76 Intentional self-harm by smoke, fire and flames
- X77 Intentional self-harm by steam, hot vapours and hot objects
- X78 Intentional self-harm by sharp object
- X79 Intentional self-harm by blunt object
- X80 Intentional self-harm by jumping from a high place
- X81 Intentional self-harm by jumping or lying before moving object
- X82 Intentional self-harm by crashing of motor vehicle
- X83 Intentional self-harm by other specified means
- X84 Intentional self-harm by unspecified means

Assault (X85-Y09)

- X85 Assault by drugs, medicaments and biological substances
- X86 Assault by corrosive substance
- X87 Assault by pesticides
- X88 Assault by gases and vapours
- X89 Assault by other specified chemicals and noxious substances
- X90 Assault by unspecified chemical or noxious substance
- X91 Assault by hanging, strangulation and suffocation
- X92 Assault by drowning and submersion
- X93 Assault by handgun discharge
- X94 Assault by rifle, shotgun and larger firearm discharge
- X95 Assault by other and unspecified firearm discharge

- X96 Assault by explosive material
- X97 Assault by smoke, fire and flames
- X98 Assault by steam, hot vapours and hot objects
- X99 Assault by sharp object
- Y00 Assault by blunt object
- Y01 Assault by pushing from high place
- Y02 Assault by pushing or placing victim before moving object
- Y03 Assault by crashing of motor vehicle
- Y04 Assault by bodily force
- Y05 Sexual assault by bodily force
- Y06 Neglect and abandonment
- Y07 Other maltreatment syndromes
- Y08 Assault by other specified means
- Y09 Assault by unspecified means

Event of undetermined intent (Y10-Y34)

- Y10 Poisoning by and exposure to nonopioid analgesics, antipyretics and antirheumatics, undetermined intent
- Y11 Poisoning by and exposure to antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified, undetermined intent
- Y12 Poisoning by and exposure to narcotics and psychodysleptics [hallucinogens], not elsewhere classified, undetermined intent
- Y13 Poisoning by and exposure to other drugs acting on the autonomic nervous system, undetermined intent
- Y14 Poisoning by and exposure to other and unspecified drugs, medicaments and biological substances, undetermined intent
- Y15 Poisoning by and exposure to alcohol, undetermined intent
- Y16 Poisoning by and exposure to organic solvents and halogenated hydrocarbons and their vapours, undetermined intent
- Y17 Poisoning by and exposure to other gases and vapours, undetermined intent
- Y18 Poisoning by and exposure to pesticides, undetermined intent
- Y19 Poisoning by and exposure to other and unspecified chemicals and noxious substances, undetermined intent
- Y20 Hanging, strangulation and suffocation, undetermined intent
- Y21 Drowning and submersion, undetermined intent
- Y22 Handgun discharge, undetermined intent
- Y23 Rifle, shotgun and larger firearm discharge, undetermined intent
- Y24 Other and unspecified firearm discharge, undetermined intent
- Y25 Contact with explosive material, undetermined intent
- Y26 Exposure to smoke, fire and flames, undetermined intent
- Y27 Contact with steam, hot vapours and hot objects, undetermined intent
- Y28 Contact with sharp object, undetermined intent
- Y29 Contact with blunt object, undetermined intent
- Y30 Falling, jumping or pushed from a high place, undetermined intent
- Y31 Falling, lying or running before or into moving object, undetermined intent
- Y32 Crashing of motor vehicle, undetermined intent
- Y33 Other specified events, undetermined intent
- Y34 Unspecified event, undetermined intent

Legal intervention and operations of war (Y35-Y36)

- Y35 Legal intervention
- Y36 Operations of war

Complications of medical and surgical care (Y40-Y84)

Drugs, medicaments and biological substances causing adverse effects in therapeutic use (Y40-Y59)

- Y40 Systemic antibiotics
- Y41 Other systemic anti-infectives and antiparasitics
- Y42 Hormones and their synthetic substitutes and antagonists, not elsewhere classified
- Y43 Primarily systemic agents
- Y44 Agents primarily affecting blood constituents
- Y45 Analgesics, antipyretics and anti-inflammatory drugs
- Y46 Antiepileptics and antiparkinsonism drugs
- Y47 Sedatives, hypnotics and antianxiety drugs
- Y48 Anaesthetics and therapeutic gases
- Y49 Psychotropic drugs, not elsewhere classified
- Y50 Central nervous system stimulants, not elsewhere classified
- Y51 Drugs primarily affecting the autonomic nervous system
- Y52 Agents primarily affecting the cardiovascular system
- Y53 Agents primarily affecting the gastrointestinal system
- Y54 Agents primarily affecting water-balance and mineral and uric acid metabolism
- Y55 Agents primarily acting on smooth and skeletal muscles and the respiratory system
- Y56 Topical agents primarily affecting skin and mucous membrane and ophthalmological, otorhinolaryngological and dental drugs
- Y57 Other and unspecified drugs and medicaments
- Y58 Bacterial vaccines
- Y59 Other and unspecified vaccines and biological substances

Misadventures to patients during surgical and medical care (Y60-Y69)

- Y60 Unintentional cut, puncture, perforation or haemorrhage during surgical and medical care
- Y61 Foreign object accidentally left in body during surgical and medical care
- Y62 Failure of sterile precautions during surgical and medical care
- Y63 Failure in dosage during surgical and medical care
- Y64 Contaminated medical or biological substances
- Y65 Other misadventures during surgical and medical care
- Y66 Nonadministration of surgical and medical care
- Y69 Unspecified misadventure during surgical and medical care

Medical devices associated with adverse incidents in diagnostic and therapeutic use (Y70-Y82)

- Y70 Anaesthesiology devices associated with adverse incidents
- Y71 Cardiovascular devices associated with adverse incidents
- Y72 Otorhinolaryngological devices associated with adverse incidents
- Y73 Gastroenterology and urology devices associated with adverse incidents
- Y74 General hospital and personal-use devices associated with adverse incidents
- Y75 Neurological devices associated with adverse incidents
- Y76 Obstetric and gynaecological devices associated with adverse incidents
- Y77 Ophthalmic devices associated with adverse incidents
- Y78 Radiological devices associated with adverse incidents
- Y79 Orthopaedic devices associated with adverse incidents
- Y80 Physical medicine devices associated with adverse incidents
- Y81 General- and plastic-surgery devices associated with adverse incidents
- Y82 Other and unspecified medical devices associated with adverse incidents

Surgical and other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure (Y83-Y84)

Y83 Surgical operation and other surgical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure

Y84 Other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure

Sequelae of external causes of morbidity and mortality (Y85-Y89)

Y85 Sequelae of transport accidents

Y86 Sequelae of other accidents

Y87 Sequelae of intentional self-harm, assault and events of undetermined intent

Y88 Sequelae with surgical and medical care as external cause

Y89 Sequelae of other external causes

Supplementary factors related to causes of morbidity and mortality classified elsewhere (Y90-Y98)

Y90 Evidence of alcohol involvement determined by blood alcohol level

Y91 Evidence of alcohol involvement determined by level of intoxication

Y95 Nosocomial condition

Y96 Work-related condition

Y97 Environmental-pollution-related condition

Y98 Lifestyle-related condition

Chapter XXI

Factors influencing health status and contact with health services (Z00-Z99)

Persons encountering health services for examination and investigation (Z00-Z13)

Z00 General examination and investigation of persons without complaint and reported diagnosis

Z01 Other special examinations and investigations of persons without complaint or reported diagnosis

Z02 Examination and encounter for administrative purposes

Z03 Medical observation and evaluation for suspected diseases and conditions

Z04 Examination and observation for other reasons

Z08 Follow-up examination after treatment for malignant neoplasms

Z09 Follow-up examination after treatment for conditions other than malignant neoplasms

Z10 Routine general health check-up of defined subpopulation

Z11 Special screening examination for infectious and parasitic diseases

Z12 Special screening examination for neoplasms

Z13 Special screening examination for other diseases and disorders

Persons with potential health hazards related to communicable diseases (z20-z29)

Z20 Contact with and exposure to communicable diseases

Z21 Asymptomatic human immunodeficiency virus [HIV] infection status

Z22 Carrier of infectious disease

Z23 Need for immunization against single bacterial diseases

Z24 Need for immunization against certain single viral diseases

Z25 Need for immunization against other single viral diseases

Z26 Need for immunization against other single infectious diseases

Z27 Need for immunization against combinations of infectious diseases

- Z28 Immunization not carried out
- Z29 Need for other prophylactic measures

Persons encountering health services in circumstances related to reproduction (Z30-Z39)

- Z30 Contraceptive management
- Z31 Procreative management
- Z32 Pregnancy examination and test
- Z33 Pregnant state, incidental
- Z34 Supervision of normal pregnancy
- Z35 Supervision of high-risk pregnancy
- Z36 Antenatal screening
- Z37 Outcome of delivery
- Z38 Liveborn infants according to place of birth
- Z39 Postpartum care and examination

Persons encountering health services for specific procedures and health care (Z40-Z54)

- Z40 Prophylactic surgery
- Z41 Procedures for purposes other than remedying health state
- Z42 Follow-up care involving plastic surgery
- Z43 Attention to artificial openings
- Z44 Fitting and adjustment of external prosthetic device
- Z45 Adjustment and management of implanted device
- Z46 Fitting and adjustment of other devices
- Z47 Other orthopaedic follow-up care
- Z48 Other surgical follow-up care
- Z49 Care involving dialysis
- Z50 Care involving use of rehabilitation procedures
- Z51 Other medical care
- Z52 Donors of organs and tissues
- Z53 Persons encountering health services for specific procedures, not carried out
- Z54 Convalescence

Persons with potential health hazards related to socioeconomic and psychosocial circumstances (Z55-Z65)

- Z55 Problems related to education and literacy
- Z56 Problems related to employment and unemployment
- Z57 Occupational exposure to risk-factors
- Z58 Problems related to physical environment
- Z59 Problems related to housing and economic circumstances
- Z60 Problems related to social environment
- Z61 Problems related to negative life events in childhood
- Z62 Other problems related to upbringing
- Z63 Other problems related to primary support group, including family circumstances
- Z64 Problems related to certain psychosocial circumstances
- Z65 Problems related to other psychosocial circumstances

Persons encountering health services in other circumstances (Z70-Z76)

- Z70 Counselling related to sexual attitude, behaviour and orientation
- Z71 Persons encountering health services for other counselling and medical advice, not elsewhere classified
- Z72 Problems related to lifestyle
- Z73 Problems related to life-management difficulty
- Z74 Problems related to care-provider dependency

- Z75 Problems related to medical facilities and other health care
- Z76 Persons encountering health services in other circumstances

Persons with potential health hazards related to family and personal history and certain conditions influencing health status (Z80-Z99)

- Z80 Family history of malignant neoplasm
- Z81 Family history of mental and behavioural disorders
- Z82 Family history of certain disabilities and chronic diseases leading to disablement
- Z83 Family history of other specific disorders
- Z84 Family history of other conditions
- Z85 Personal history of malignant neoplasm
- Z86 Personal history of certain other diseases
- Z87 Personal history of other diseases and conditions
- Z88 Personal history of allergy to drugs, medicaments and biological substances
- Z89 Acquired absence of limb
- Z90 Acquired absence of organs, not elsewhere classified
- Z91 Personal history of risk-factors, not elsewhere classified
- Z92 Personal history of medical treatment
- Z93 Artificial opening status
- Z94 Transplanted organ and tissue status
- Z95 Presence of cardiac and vascular implants and grafts
- Z96 Presence of other functional implants
- Z97 Presence of other devices
- Z98 Other postsurgical states
- Z99 Dependence on enabling machines and devices, not elsewhere classified

Chapter XXII

Codes for special purposes (U00-U99)

Provisional assignment of new diseases of uncertain etiology (U00-U49)

- U04 Severe acute respiratory syndrome [SARS]

