PHYSICIANS’ MANUAL
ON
MEDICAL CERTIFICATION
OF
CAUSE OF DEATH

OFFICE OF THE REGISTRAR GENERAL, INDIA
GOVERNMENT OF INDIA,
MINISTRY OF HOME AFFAIRS,
2 A, MAN SINGH ROAD, NEW DELHI
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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.

Dr. C.Chandramouli
Registrar General &
Census Commissioner, India

New Delhi
September, 2012
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 feedback 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

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 disease**: Nature of disease process; acute or chronic; infecting organism, any external cause.
9. **Digestive diseases**: 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

<table>
<thead>
<tr>
<th>PART – I</th>
<th>PART – II</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Peritonitis</td>
<td>Carcinoma of bronchus</td>
</tr>
<tr>
<td>(b) Perforation of Duodenum</td>
<td></td>
</tr>
<tr>
<td>(c) Duodenal ulcer</td>
<td></td>
</tr>
<tr>
<td>2 Days</td>
<td>3 Days</td>
</tr>
<tr>
<td>3 Days</td>
<td>6 months</td>
</tr>
</tbody>
</table>

#### 3.1.2

<table>
<thead>
<tr>
<th>PART – I</th>
<th>PART – II</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Abscess of hand</td>
<td></td>
</tr>
<tr>
<td>(b) Incision of hand</td>
<td></td>
</tr>
<tr>
<td>(c) Tetanus</td>
<td></td>
</tr>
<tr>
<td>10 Days</td>
<td></td>
</tr>
</tbody>
</table>

#### 3.1.3

<table>
<thead>
<tr>
<th>PART – I</th>
<th>PART – II</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Toxaemia</td>
<td>Tuberculosis</td>
</tr>
<tr>
<td>(b) Severe anaemia of pregnancy</td>
<td></td>
</tr>
<tr>
<td>(c) ............</td>
<td></td>
</tr>
</tbody>
</table>

#### 3.1.4

<table>
<thead>
<tr>
<th>PART – I</th>
<th>PART – II</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Asphyxia</td>
<td></td>
</tr>
<tr>
<td>(b) Drowning</td>
<td></td>
</tr>
<tr>
<td>(c) ............</td>
<td></td>
</tr>
</tbody>
</table>

#### 3.1.5

<table>
<thead>
<tr>
<th>PART – I</th>
<th>PART – II</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Uraemia</td>
<td></td>
</tr>
<tr>
<td>(b) Chronic nephritis</td>
<td></td>
</tr>
<tr>
<td>(c) ............</td>
<td></td>
</tr>
</tbody>
</table>

...
### 3.1.6

<table>
<thead>
<tr>
<th>PART – I</th>
<th>PART – II</th>
</tr>
</thead>
</table>
| (a) Uraemia  
(b) Retention of urine  
(c) Hypertrophy of prostrate | ....................................................... |

### 3.1.7

<table>
<thead>
<tr>
<th>PART – I</th>
<th>PART – II</th>
</tr>
</thead>
</table>
| (a) Brain Injury  
(b) Fall at home  
(c) Chronic alcoholic | ....................................................... |

### 3.1.8

<table>
<thead>
<tr>
<th>PART – I</th>
<th>PART – II</th>
</tr>
</thead>
</table>
| (a) Fracture of vault of skull  
(b) Collision between car he was driving and heavy truck on road.  
(c) .......... | 15 Min.  
| | ....................................................... |

### 3.1.9

<table>
<thead>
<tr>
<th>PART – I</th>
<th>PART – II</th>
</tr>
</thead>
</table>
| (a) Carbon monoxide poisoning  
(b)  
(c) Unknown | Cancer of stomach |

### 3.1.10

<table>
<thead>
<tr>
<th>PART – I</th>
<th>PART – II</th>
</tr>
</thead>
</table>
| (a) Cardiac tamponade  
(b) Perforation of heart  
(c) Gunshot wound to thorax | 15 Minutes  
| | 20 minutes  
| | 20 minutes  
| | ....................................................... |
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 4\textsuperscript{th} January, she underwent a release of hernia and the recession of the intestines, with an end to end “Anastomosis”. On 5\textsuperscript{th} January, she started developing signs of “peritonitis”, and following that dies on 14.01.1977.

<table>
<thead>
<tr>
<th>Statement</th>
<th>PART – I</th>
<th>PART-II</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Peritonitis, acute</td>
<td>12 days</td>
<td>.................................</td>
</tr>
<tr>
<td>(b) Perforation of small intestine</td>
<td>15 days</td>
<td></td>
</tr>
<tr>
<td>(c) Strangulated Femoral Hernia</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Explanation: Clearly, acute peritonitis led directly to death and therefore appears on lime (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 15\textsuperscript{th} February and died 6 days later. Autopsy revealed also fractured hip and pelvis, cardiac hypertophy, chronic fibrous myocarditis and coronary sclerosis.

<table>
<thead>
<tr>
<th>Statement</th>
<th>PART – I</th>
<th>PART-II</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Bronchopneumonia</td>
<td>6 days</td>
<td>Arteriosclerotic heart with coronary sclerosis.</td>
</tr>
<tr>
<td>(b) Fracture of left Ischium and Ilium</td>
<td>7 days</td>
<td></td>
</tr>
<tr>
<td>(c)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>PART – I</th>
<th>(a) Bronchopneumonia</th>
<th>3 days</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(b) Metastatic cancer of bladder and abdomen.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(c) Adenocarcinoma of rectum</td>
<td></td>
</tr>
<tr>
<td>PART-II</td>
<td>Syphilis</td>
<td></td>
</tr>
</tbody>
</table>

Explanation: Since the metastatic lesions were the result of the Adено 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

<table>
<thead>
<tr>
<th>PART – I</th>
<th>(a) Pulmonary hemorrhage</th>
<th>10 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(b) Advanced pulmonary TB</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(c) ..............................................................</td>
<td></td>
</tr>
<tr>
<td>PART-II</td>
<td>Generalised arteriosclerosis and varicose veins of lower extremity.</td>
<td></td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>PART – I</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>PART-II</td>
</tr>
<tr>
<td>2 days</td>
</tr>
</tbody>
</table>

**Explanation:** Acute myocardial infarction, listed in Part I line (a) as the immediate cause of death, is a direct consequence of arteriosclerotic heart disease; the underlying cause listed in Part I 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 creatinc 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 cariomegaly 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 |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PART-II</td>
<td>Non-insulin-dependent diabetes mellitus, obesity, hypertension, congestive heart failure</td>
</tr>
</tbody>
</table>

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 |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Part – II</td>
<td>...........................................................................</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>PART – I</th>
<th>(a) Pneumocystis carinii pneumonia</th>
<th>2 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(b) Acquired Immunodeficiency Syndrome</td>
<td>17 months</td>
</tr>
<tr>
<td></td>
<td>(c) HIV infection</td>
<td>Over 17 months</td>
</tr>
</tbody>
</table>

| 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

<table>
<thead>
<tr>
<th>PART – I</th>
<th>(a) Acute exacerbation of obstructive airways disease.</th>
<th>12 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(b) Chronic bronchitis.</td>
<td>10 years</td>
</tr>
<tr>
<td></td>
<td>(c) ...................................................</td>
<td></td>
</tr>
</tbody>
</table>

| 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

<table>
<thead>
<tr>
<th>PART – I</th>
<th>(a) Acute renal failure</th>
<th>5 days</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(b) Hyperosmolar nonketotic coma</td>
<td>8 days</td>
</tr>
<tr>
<td></td>
<td>(c) Diabetes mellitus, non-insulin-dependent.</td>
<td>15 Years</td>
</tr>
<tr>
<td>PART-II</td>
<td>Hypertension, previous myocardial infarction</td>
<td></td>
</tr>
</tbody>
</table>

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 midepigastric 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. 

Explanation: The immediate cause of death in this case was respiratory arrest.
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 | 7 days  
          | 45 days |

**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 |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PART-II</td>
<td>Gestational hypertension</td>
</tr>
</tbody>
</table>

**Explanation:** Gestational hypertension would be considered a factor that contributed to the death. However, it would not be in the direct causal 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:**

<table>
<thead>
<tr>
<th>Incorrect Certificate</th>
<th>Correct Certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td>PART I</td>
<td></td>
</tr>
</tbody>
</table>
| (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:**

<table>
<thead>
<tr>
<th>Incorrect Certificate</th>
<th>Correct Certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td>PART I</td>
<td></td>
</tr>
</tbody>
</table>
| (a) Diabetes  
(b) Gangrene Foot  
(c) Carcinoma Pancreas and chronic bronchitis | (a) Gangrene Foot  
(b) Diabetes  
(c) Carcinoma Pancreas |
| PART II               |                     |

**ILLUSTRATION:** 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:

<table>
<thead>
<tr>
<th>Incorrect Certificate</th>
<th>Correct Certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td>PART I</td>
<td></td>
</tr>
<tr>
<td>(a) Retention of urine with Hypertrophy of Prostate with Uremia</td>
<td>(a) Uremia</td>
</tr>
<tr>
<td>(b) Cataract</td>
<td>(b) Retention of Urine</td>
</tr>
<tr>
<td>(c) Ischaemic Heart Disease</td>
<td>(c) Hypertrophy of Prostate</td>
</tr>
<tr>
<td>PART II</td>
<td>Cataract, Ischaemic Heart Disease</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Incorrect Certificate</th>
<th>Correct Certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td>PART I</td>
<td></td>
</tr>
<tr>
<td>(a) Nephrectomy</td>
<td>(a) Edema Face, foot</td>
</tr>
<tr>
<td>(b) Edema Face, Foot</td>
<td>(b) Embryomia of Kidney</td>
</tr>
<tr>
<td>(c) ___________________</td>
<td>(c) ___________________</td>
</tr>
<tr>
<td>PART II</td>
<td>Embryoma of Kidney</td>
</tr>
</tbody>
</table>

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 “Embryomia 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:

<table>
<thead>
<tr>
<th>Incorrect Certificate</th>
<th>Correct Certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td>PART I</td>
<td></td>
</tr>
<tr>
<td>(a) Polycystic Kidney</td>
<td>(a) Renal failure</td>
</tr>
<tr>
<td>(b) Renal Failure and Hypertension</td>
<td>(b) Hypertension</td>
</tr>
<tr>
<td>(c) Ischaemic Heart Disease</td>
<td>(c) Polycystic Kidney</td>
</tr>
<tr>
<td>PART II</td>
<td>Ischaemic Heart Disease</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Incorrect Certificate</th>
<th>Correct Certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td>PART I</td>
<td></td>
</tr>
<tr>
<td>(a) Intestinal Obstruction</td>
<td>(a) Femoral Hernia with obstruction</td>
</tr>
<tr>
<td>(b) Femoral Hernia</td>
<td>(b) ___________________</td>
</tr>
<tr>
<td>(c) ___________________</td>
<td>(c) ___________________</td>
</tr>
<tr>
<td>PART II</td>
<td>___________________</td>
</tr>
</tbody>
</table>

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.
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:-

<table>
<thead>
<tr>
<th>PART – I</th>
<th>(a) Myocardial Infarction</th>
<th>1 hour</th>
<th>(b) Chronic Ischaemic heart disease</th>
<th>5 Years</th>
<th>(c) Diabetes mellitus</th>
<th>12 Years</th>
</tr>
</thead>
</table>

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:-

<table>
<thead>
<tr>
<th>PART – I</th>
<th>(a) Myocardial infarction</th>
<th>1 hour</th>
<th>(b) Chronic ischaemic heart disease</th>
<th>5 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>PART-II</td>
<td>Diabetes mellitus</td>
<td>12 years.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>PART – I</th>
<th>(a) Acute renal failure</th>
<th>1 week</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(b) Nephropathy</td>
<td>4 years</td>
</tr>
<tr>
<td></td>
<td>(c) Diabetes mellitus</td>
<td>12 years</td>
</tr>
<tr>
<td>PART-II</td>
<td>Chronic ischaemic heart disease</td>
<td>5 years</td>
</tr>
</tbody>
</table>

The underlying cause is “Diabetic nephropathy"
4. ANNEXURES

EXAMPLES OF INCOMPLETE DESCRIPTIONS OF CAUSE OF DEATH

<table>
<thead>
<tr>
<th>Term</th>
<th>Additional Information needed for satisfactory coding according to international classification.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abortion</td>
<td>Spontaneous or induced and reason if induced, period of gestation, Whether sepsis or toxemia.</td>
</tr>
<tr>
<td>Abscess</td>
<td>Site and cause (e.g. tuberculous)</td>
</tr>
<tr>
<td>Anaemia</td>
<td>Variety if primary; cause if secondary.</td>
</tr>
<tr>
<td>Aneurysm</td>
<td>Aortic (abdominal or thoracic), Arterial, arteriovenous, cardiac; arteriosclerotic or syphilitic.</td>
</tr>
<tr>
<td>Angina</td>
<td>Agranulocytic, diptheritic, faucium, streptococcal, Vincent’s; pectoris</td>
</tr>
<tr>
<td>Apoplxy</td>
<td>Site of lesion; recent or late effects</td>
</tr>
<tr>
<td>Appendicitis</td>
<td>Acute, chronic or perforated</td>
</tr>
<tr>
<td>Arteriosclerosis</td>
<td>Whether hypertensive (benign or malignant) nature of cardiac, cerebral or renal manifestation, if any.</td>
</tr>
<tr>
<td>Arteritis</td>
<td>Arteriosclerotic, syphilitic; cerebral, coronary</td>
</tr>
<tr>
<td>Arthritis</td>
<td>Acute, gonococcal, gouty, osteoarthritic, tuberculous, due to rheumatic fever Or rheumatoid</td>
</tr>
<tr>
<td>Ascites</td>
<td>Cause of the condition</td>
</tr>
<tr>
<td>Asphyxia</td>
<td>Cause of the condition</td>
</tr>
<tr>
<td>Atheroma</td>
<td>Aorta, artery, valve of heart</td>
</tr>
<tr>
<td>Boil</td>
<td>Site</td>
</tr>
<tr>
<td>Bright’s disease</td>
<td>Acute, sub-acute or chronic</td>
</tr>
<tr>
<td>Bronchitis</td>
<td>Acute, chronic; allergic, capillary, emphysematous</td>
</tr>
<tr>
<td>Burn</td>
<td>Site(s) and whether by fire, explosion, hot object, liquid chemical or radiation.</td>
</tr>
<tr>
<td>Calculus</td>
<td>Site</td>
</tr>
<tr>
<td>Term</td>
<td>Additional Information needed for satisfactory coding according to international classification.</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Caner, carcinoma</td>
<td>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</td>
</tr>
<tr>
<td>Carbuncle</td>
<td>Site</td>
</tr>
<tr>
<td>Cardiac failure</td>
<td>Disease causing the condition</td>
</tr>
<tr>
<td>Cardiovascular disease</td>
<td>Whether hypertensive, coronary or renal involvement</td>
</tr>
<tr>
<td>Carditis</td>
<td>Endo, myo or per, acute, rheumatic</td>
</tr>
<tr>
<td>Caries</td>
<td>Cause, part affected</td>
</tr>
<tr>
<td>Cellulitis</td>
<td>Cause, part affected</td>
</tr>
<tr>
<td>Child birth</td>
<td>Complication and whether apparent before delivery</td>
</tr>
<tr>
<td>Chorea</td>
<td>Rheumatic, Huntington’s gravidarum</td>
</tr>
<tr>
<td>Cirrhosis of liver</td>
<td>Cause (e.g. alcoholic)</td>
</tr>
<tr>
<td>Convulsion, Croup</td>
<td>Cause</td>
</tr>
<tr>
<td>Crushing</td>
<td>Whether fracture, internal injury, external cause</td>
</tr>
<tr>
<td>Curvature of spine</td>
<td>Cause, congenital or acquired</td>
</tr>
<tr>
<td>Cyst</td>
<td>Site, congenital, multiple, hydatid, dermoid retention</td>
</tr>
<tr>
<td>Debility</td>
<td>Disease causing the condition</td>
</tr>
<tr>
<td>Dermatitis</td>
<td>Variety</td>
</tr>
<tr>
<td>Dementia</td>
<td>Disease causing the condition</td>
</tr>
<tr>
<td>Diabetes</td>
<td>Complication or independent disease, causing death (particular care should be taken to differentiate between diabetes as the underlying cause and as a contributory condition</td>
</tr>
<tr>
<td>Diarrhoea</td>
<td>Cause</td>
</tr>
<tr>
<td>Dysentery</td>
<td>Bacterial, Amoebic or other protozoal</td>
</tr>
<tr>
<td>Term</td>
<td>Additional Information needed for satisfactory coding according to international classification.</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Eclampsia</td>
<td>Cause and whether apparent before delivery</td>
</tr>
<tr>
<td>Embolism</td>
<td>Site and cause; associated child-birth or abortion; if following operation; state Condition for which operation was performed.</td>
</tr>
<tr>
<td>Encephalitis</td>
<td>Acute infectious, late effect of infectious; post vaccinal, post-exanthematous, idiopathic, meningococcal, supportive or tuberculous.</td>
</tr>
<tr>
<td>Endocarditis</td>
<td>Acute or chronic; arteriosclerotic, hypertensive, rheumatic or other, if rheumatic, whether rheumatic fever was present at death.</td>
</tr>
<tr>
<td>Endometritis</td>
<td>Whether puerperal infection</td>
</tr>
<tr>
<td>Fits</td>
<td>Apoplectic, epileptic, eclampsia or hysteria</td>
</tr>
<tr>
<td>Fracture</td>
<td>Bone; part of skull or lemur; compound; external cause</td>
</tr>
<tr>
<td>Gangrene</td>
<td>Site and cause (diabetic, gas bacillus, senile)</td>
</tr>
<tr>
<td>Gestritis</td>
<td>Cause</td>
</tr>
<tr>
<td>Glioma</td>
<td>Variety if known; site</td>
</tr>
<tr>
<td>Goitre</td>
<td>Simple or toxic; diffuse or nodular</td>
</tr>
<tr>
<td>Haematemesis</td>
<td>Disease causing the condition</td>
</tr>
<tr>
<td>Haemoptysis</td>
<td>Whether tuberculous</td>
</tr>
<tr>
<td>Haemorrhage</td>
<td>Site and cause</td>
</tr>
<tr>
<td>Hemiplegia</td>
<td>Cause and duration</td>
</tr>
<tr>
<td>Hepatitis</td>
<td>Acute infective, chronic, alcoholic of new born of pregnancy, puerperal, post-immunization, post-transfusion.</td>
</tr>
<tr>
<td>Hydrocephalus</td>
<td>Congenital, tuberculous or other cause</td>
</tr>
<tr>
<td>Hypertension</td>
<td>Benign or malignant, whether associated arteriosclerosis, cerebrovascular, Cardiacor renal manifestation or pregnancy.</td>
</tr>
<tr>
<td>Immaturity</td>
<td>Cause; gestation period, birth weight; associated abnormality or disease, if any.</td>
</tr>
<tr>
<td>Term</td>
<td>Additional Information needed for satisfactory coding according to international classification.</td>
</tr>
<tr>
<td>------------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Influenza</td>
<td>Complications, if any</td>
</tr>
<tr>
<td>Injury</td>
<td>Nature of injuries and parts of body injured whether accident, suicide, homicide, war injury; place and circumstances of accident</td>
</tr>
<tr>
<td>Insanity</td>
<td>Form of mental disorder, direct cause of death, underlying congenital condition, cerebral disease, arteriosclerosis, syphilis</td>
</tr>
<tr>
<td>Jaundice</td>
<td>Catarrhal, epidemic, haematogenous, obstructive, toxic, cause of obstruction or toxaemia, if any, and whether occurring during pregnancy or the Puerperium of following immunization or transfusion. Avoid the term “malignant” jaundice.</td>
</tr>
<tr>
<td>Laryngitis</td>
<td>Acute, chronic or tuberculous</td>
</tr>
<tr>
<td>Leukaemia</td>
<td>Lymphatic, myeloid, monocytic; acute or chronic</td>
</tr>
<tr>
<td>Malaria</td>
<td>Benign, tertian, malignant tertian, quartan, ovale black water fever</td>
</tr>
<tr>
<td>Malformation</td>
<td>Congenital or acquired, type and organ involved</td>
</tr>
<tr>
<td>Malnutrition</td>
<td>Congenital or due to inadequate diet, disease or lack of care</td>
</tr>
<tr>
<td>Marasmus</td>
<td>Cause</td>
</tr>
<tr>
<td>Myocarditis</td>
<td>Acute rhematic, acute non-rheumatic chronic rheumatic, other chronic (but avoid using chronic “Myocarditis” to describe degeneration of the myocardium)</td>
</tr>
<tr>
<td>Neoplasm</td>
<td>Benign or malignant; type and location; if malignant, see cancer</td>
</tr>
<tr>
<td>Nephritis</td>
<td>Acute or sub-acute with oedema; chronic; Infective or toxic; cause if known. Associated hypertension, arteriosclerosis, heart disease or pregnancy</td>
</tr>
<tr>
<td>Neuritis</td>
<td>Location; cause (e.g. alchol, lead, rheumatism)</td>
</tr>
<tr>
<td>Paraplegia</td>
<td>Spastic due to birth injury, due to cerebral, lesion; due to spinal lesion</td>
</tr>
<tr>
<td>Pneumonia</td>
<td>Broncho; lobar, atypical, chronic interstitial hypostatic, influenza, neonatal, tuberculous following measles</td>
</tr>
<tr>
<td>Pneumothorax</td>
<td>Cause of the condition</td>
</tr>
<tr>
<td>Term</td>
<td>Additional Information needed for satisfactory coding according to international classification.</td>
</tr>
<tr>
<td>-----------------</td>
<td>---------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Rheumatic fever</td>
<td>Distinguish heart affections with active rheumatic fever at death from old heart lesions left by rheumatic fever</td>
</tr>
<tr>
<td>Rickets</td>
<td>Active, late effects (e.g. genuvalgum) foetal, renal or scurvy</td>
</tr>
<tr>
<td>Salpingitis</td>
<td>Acute chronic, gonococcal, tuberculous, post-abortive, puerperal</td>
</tr>
<tr>
<td>Septicemia</td>
<td>Cause and site if localized</td>
</tr>
<tr>
<td>Spondylitis</td>
<td>Ankylosing; deformans, sacro-iliac, genococcal, tuberculous</td>
</tr>
<tr>
<td>Suffocation</td>
<td>Cause e.g. bedclothes, inhaling food, foreign body or smoke, chemical, mechanical, submersion, during birth</td>
</tr>
<tr>
<td>Syphilis</td>
<td>Congenital, early or late, organ affected</td>
</tr>
<tr>
<td>Tetanus</td>
<td>Mode of infection if known, e.g. slight injury, major injury, puerperal</td>
</tr>
<tr>
<td>Tuberculosis</td>
<td>Organs affected including pleura and parts of respiratory system</td>
</tr>
<tr>
<td>Ulcers</td>
<td>Site and cause, whether perforated</td>
</tr>
<tr>
<td>Uraemia</td>
<td>Cause, if known- e.g. acute, sub-acute, or chronic, nephritis, associated Pregnancy or child-birth.</td>
</tr>
</tbody>
</table>
**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 .................. At ..........AM/PM

<table>
<thead>
<tr>
<th>NAME OF DECEASED</th>
<th>Age at Death</th>
<th>For use of Statistical Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sex</td>
<td>If 1 year or more, age in years</td>
<td>If less than 1 year, age in month</td>
</tr>
<tr>
<td>1. Male</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Female</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CAUSE OF DEATH**

I

Immediate cause

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

Antecedent cause

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

II

Other significant conditions contributing to the death but not related to the disease or condition causing it

(a) ................................................

due to (or as a consequences of)

(b) ................................................

due to (or as a consequences of)

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

Interval between onset and death approx.

**Manner of Death**

How did the injury occur?


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)
# 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 ……………………………………… at ……………….A.M./P.M.

<table>
<thead>
<tr>
<th>NAME OF DECEASED</th>
<th>Age at Death</th>
<th>For use ofStatistic al Office</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>If 1 year or more, age in years</td>
<td>If less than 1 year, age in month</td>
</tr>
<tr>
<td>3. Male</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Female</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CAUSE OF DEATH

I

Immediate cause

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

(b) …………………………………… due to (or as a consequences of)

Antecedent cause

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

(c) ……………………………………

II

Other significant conditions contributing to the death but not related to the disease or condition causing it

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

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

*: 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
A61 Other predominantly sexually transmitted diseases, not elsewhere classified
A62 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
A72 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 Zygomyces
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 Diphyllobothriasis 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
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 amnestic 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 Other 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 Other 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 Other disorders of sclera and cornea in diseases classified elsewhere
H20 Iridocyclitis
H21 Other disorders of iris and ciliary body
H22 Other 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 Otalgia 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 Other 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 Other disorders of skin and subcutaneous tissue
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
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 Spondylolisthesis
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 Other 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
Q88 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
R65 Other general symptoms and signs
R66 Other 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 antiinflammatories
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
Poisoning by topical agents primarily affecting skin and mucous membrane and by ophthalmological, otorhinolaryngological and dental drugs

Poisoning by diuretics and other and unspecified drugs, medicaments and biological substances

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

Toxic effect of alcohol

Toxic effect of organic solvents

Toxic effect of halogen derivatives of aliphatic and aromatic hydrocarbons

Toxic effect of corrosive substances

Toxic effect of soaps and detergents

Toxic effect of metals

Toxic effect of other inorganic substances

Toxic effect of carbon monoxide

Toxic effect of other gases, fumes and vapours

Toxic effect of pesticides

Toxic effect of noxious substances eaten as seafood

Toxic effect of other noxious substances eaten as food

Toxic effect of contact with venomous animals

Toxic effect of aflatoxin and other mycotoxin food contaminants

Toxic effect of other and unspecified substances

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

Unspecified effects of radiation

Effects of heat and light

Hypothermia

Other effects of reduced temperature

Effects of air pressure and water pressure

Asphyxiation

Effects of other deprivation

Maltreatment syndromes

Effects of other external causes

Adverse effects, not elsewhere classified

Certain early complications of trauma (T79)

Certain early complications of trauma, not elsewhere classified

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

Complications following infusion, transfusion and therapeutic injection

Complications of procedures, not elsewhere classified

Complications of cardiac and vascular prosthetic devices, implants and grafts

Complications of genitourinary prosthetic devices, implants and grafts

Complications of internal orthopaedic prosthetic devices, implants and grafts

Complications of other internal prosthetic devices, implants and grafts

Failure and rejection of transplanted organs and tissues

Complications peculiar to reattachment and amputation

Other complications of surgical and medical care, not elsewhere classified

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

Sequelae of injuries of head

Sequelae of injuries of neck and trunk

Sequelae of injuries of upper limb

Sequelae of injuries of lower limb

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
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>V35</td>
<td>Occupant of three-wheeled motor vehicle injured in collision with railway train or railway vehicle</td>
</tr>
<tr>
<td>V36</td>
<td>Occupant of three-wheeled motor vehicle injured in collision with other nonmotor vehicle</td>
</tr>
<tr>
<td>V37</td>
<td>Occupant of three-wheeled motor vehicle injured in collision with fixed or stationary object</td>
</tr>
<tr>
<td>V38</td>
<td>Occupant of three-wheeled motor vehicle injured in noncollision transport accident</td>
</tr>
<tr>
<td>V39</td>
<td>Occupant of three-wheeled motor vehicle injured in other and unspecified transport accidents</td>
</tr>
</tbody>
</table>

**Car occupant injured in transport accident (V40-V49)**

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

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

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

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

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

**Bus occupant injured in transport accident (V70-V79)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>V70</td>
<td>Bus occupant injured in collision with pedestrian or animal</td>
</tr>
<tr>
<td>V71</td>
<td>Bus occupant injured in collision with pedal cycle</td>
</tr>
<tr>
<td>V72</td>
<td>Bus occupant injured in collision with two- or three-wheeled motor vehicle</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
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</tr>
<tr>
<td>V73</td>
<td>Bus occupant injured in collision with car, pick-up truck or van</td>
</tr>
<tr>
<td>V74</td>
<td>Bus occupant injured in collision with heavy transport vehicle or bus</td>
</tr>
<tr>
<td>V75</td>
<td>Bus occupant injured in collision with railway train or railway vehicle</td>
</tr>
<tr>
<td>V76</td>
<td>Bus occupant injured in collision with other nonmotor vehicle</td>
</tr>
<tr>
<td>V77</td>
<td>Bus occupant injured in collision with fixed or stationary object</td>
</tr>
<tr>
<td>V78</td>
<td>Bus occupant injured in noncollision transport accident</td>
</tr>
<tr>
<td>V79</td>
<td>Bus occupant injured in other and unspecified transport accidents</td>
</tr>
<tr>
<td>V80</td>
<td>Animal-rider or occupant of animal-drawn vehicle injured in transport accident</td>
</tr>
<tr>
<td>V81</td>
<td>Occupant of railway train or railway vehicle injured in transport accident</td>
</tr>
<tr>
<td>V82</td>
<td>Occupant of streetcar injured in transport accident</td>
</tr>
<tr>
<td>V83</td>
<td>Occupant of special vehicle mainly used on industrial premises injured in transport accident</td>
</tr>
<tr>
<td>V84</td>
<td>Occupant of special vehicle mainly used in agriculture injured in transport accident</td>
</tr>
<tr>
<td>V85</td>
<td>Occupant of special construction vehicle injured in transport accident</td>
</tr>
<tr>
<td>V86</td>
<td>Occupant of special all-terrain or other motor vehicle designed primarily for off-road use, injured in transport accident</td>
</tr>
<tr>
<td>V87</td>
<td>Traffic accident of specified type but victim's mode of transport unknown</td>
</tr>
<tr>
<td>V88</td>
<td>Nontraffic accident of specified type but victim's mode of transport unknown</td>
</tr>
<tr>
<td>V89</td>
<td>Motor- or nonmotor-vehicle accident, type of vehicle unspecified</td>
</tr>
<tr>
<td>V90</td>
<td>Accident to watercraft causing drowning and submersion</td>
</tr>
<tr>
<td>V91</td>
<td>Accident to watercraft causing other injury</td>
</tr>
<tr>
<td>V92</td>
<td>Water-transport-related drowning and submersion without accident to watercraft</td>
</tr>
<tr>
<td>V93</td>
<td>Accident on board watercraft without accident to watercraft, not causing drowning and submersion</td>
</tr>
<tr>
<td>V94</td>
<td>Other and unspecified water transport accidents</td>
</tr>
<tr>
<td>V95</td>
<td>Accident to powered aircraft causing injury to occupant</td>
</tr>
<tr>
<td>V96</td>
<td>Accident to nonpowered aircraft causing injury to occupant</td>
</tr>
<tr>
<td>V97</td>
<td>Other specified air transport accidents</td>
</tr>
<tr>
<td>V98</td>
<td>Other specified transport accidents</td>
</tr>
<tr>
<td>V99</td>
<td>Unspecified transport accident</td>
</tr>
</tbody>
</table>

**Other external causes of accidental injury (W00-X59)**

**Falls (w00-w19)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>W00</td>
<td>Fall on same level involving ice and snow</td>
</tr>
<tr>
<td>W01</td>
<td>Fall on same level from slipping, tripping and stumbling</td>
</tr>
<tr>
<td>W02</td>
<td>Fall involving ice-skates, skis, roller-skates or skateboards</td>
</tr>
<tr>
<td>W03</td>
<td>Other fall on same level due to collision with, or pushing by, another person</td>
</tr>
<tr>
<td>W04</td>
<td>Fall while being carried or supported by other persons</td>
</tr>
<tr>
<td>W05</td>
<td>Fall involving wheelchair</td>
</tr>
<tr>
<td>W06</td>
<td>Fall involving bed</td>
</tr>
<tr>
<td>W07</td>
<td>Fall involving chair</td>
</tr>
<tr>
<td>W08</td>
<td>Fall involving other furniture</td>
</tr>
<tr>
<td>W09</td>
<td>Fall involving playground equipment</td>
</tr>
<tr>
<td>W10</td>
<td>Fall on and from stairs and steps</td>
</tr>
<tr>
<td>W11</td>
<td>Fall on and from ladder</td>
</tr>
</tbody>
</table>
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
Contact with hot heating appliances, radiators and pipes (X16)
Contact with hot engines, machinery and tools (X17)
Contact with other hot metals (X18)
Contact with other and unspecified heat and hot substances (X19)

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

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

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

Overexertion, travel and privation (X50-X57)
Overexertion and strenuous or repetitive movements (X50)
Travel and motion (X51)
Prolonged stay in weightless environment (X52)
Lack of food (X53)
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 remediying 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
Problems related to medical facilities and other health care
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]