MCCD_Training Module

Office of the Dy. Director of Health Services (SBHI & VS), Pune
PART - I
MEDICAL CERTIFICATION OF CAUSE OF DEATH (MCCD)

1) INTRODUCTION:

Medical Certification of Cause of Death Scheme is an important tool of obtaining authentic and scientific information regarding causes of mortality. The scheme formulated by office of the Registrar General, India is a big step towards establishment of a system in the country for obtaining data on cause of death. The scheme had undergone phase-wise implementation in the State starting from Medical College Hospitals and in second phase District Hospitals, Specialised Hospitals were covered. The office of the Registrar General had given necessary administrative guidelines regarding the coverage of MCCD Scheme in both Urban and Rural areas. Attempts are being made to cover all Private Hospitals and Rural Hospitals since 1998.

Medical Certification of Cause of Death Scheme was introduced for the first time in Maharashtra State in Pune city in 1951. Later it was also extended to Nagpur (1957), Mumbai (1962) and Solapur (1969) cities. The remaining urban areas were added in 1970 and onwards, with the encouragement of the Director General of Health Services, G.O.I. and with the co-operation of the Director of Municipal Administration. A directive was issued to all the Municipalities towards the end of 1969 to bring into effect MCCD, in their respective areas, for certifying the cause of death under the Maharashtra Municipality Act 1965.

This manual is prepared for medical officers to improve their skills for writing accurate cause of death in form No. 4/4A according to the guidelines given by WHO. This manual has two parts. Part-I is concerned with implementation of MCCD scheme, formats and the duties of implementing officers. Part II is mainly focused on International Classification of Diseases 10th Revision and illustrations regarding various case histories of the deceased and its coding.
2) IMPORTANCE OF MCCD SCHEME:

Mortality statistics is essential for better health planning and management of programmes and for undertaking control measures in an effective and planned manner for welfare of people. It also provides a scientific and basic information for medical research as well as gives mortality profile for medical professionals. It is also useful to know the impact of health services and to evaluate health indicators like infant mortality, maternal mortality etc. It helps to understand the trend and changing mortality pattern of various diseases as well as to find out the magnitude of newly emerged diseases like HIV/AIDS.

3) LEGAL PROVISION:

Registration of Births and Deaths Act, 1969 has a provision for MCCD under section 10(2) and 10(3)

Section 10 (2):- In any area, the State Govt. 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 Govt. has required under subsection (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 & belief the cause of Death; & the certificate shall be received and delivered by such person to the Registrar at the time of giving information concerning the death as required by this Act (Revised form No. 4/4A (Old form No. 8 by Rule No. 8 of Maharashtra RBD Rules, 1976).

Section 17(1)(b):- Subject to any rules made in this behalf by State Govt. 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.

Govt. of Maharashtra has now framed the Rules based on the provisions of RBD Act, 1969, with the approval of Central Govt. They have come into force with effect from 1st May 2000 by a notification in the official Gazette. These Rules replace the Maharashtra Registration of Births and Death Rules, 1976 and all its subsequent amendments notified from time to time. Submission of MCCD to the local registrar is obligatory under the Rule No. 7 of “Maharashtra Registration of Births and Deaths Rules, 2000”.

5) ‘WHO’ PRESCRIBED FORM OF MEDICAL CERTIFICATE
(Please see ANNEXURE V,VI)

The standard format of the certificate prescribed by WHO is incorporated in the Rules 2000 viz. form No. 4 & form No. 4A.

A medical person attending the deceased in his/her last illness, after death of a person shall fill in form No. 4 for institutional deaths/ 4A for non-institutional deaths.

The cause of Death:- The cause of death is a disease, abnormality, injury or poisoning that contributed directly or indirectly to death.

Besides medical part, Form No. 4/4A contains some minimum demographic and identification particulars such as age, sex, date of death of the deceased.

"Cause of death" part of MCCD form has two parts.

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 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 of skull, crushed chest etc.).

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

If the condition on line (a) was the consequence of another condition, record that on the line (b). This condition must be antecedent to the immediate cause of death, both with respect to time and aetiological or pathological relationship. In case of injury, the form of external 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 etc.).

An antecedent condition might have just prepared the way for 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. If the condition on line (b) is the underlying cause, nothing more be entered on this line. However, if the sequence of event comprise more than three stages, extra line (and entries) may be made in part I as (d).

    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 events between normal health and death) last.

    Normally the condition on the lowest line of part I will be taken as a underlying cause and used for statistical classification of causes of deaths by International Classification of Diseases (ICD) – 10.

**Part II : Other significant conditions :**

Enter all other diseases or conditions believed to have influenced the
course of the morbid process and thus contributed to death but which were not related to the disease or conditions directly causing the death.

A form has a detachable portion separated by perforation mark, containing information on the fact of death, which after filling 4/4A will be handed over to relatives of the deceased for further procedures.

Normally the medical part of the MCCD certificate is the responsibility of the attending physician and based on his individual assessment. In case of medico-legal cases, cause of death should be written by medical officer who performs post-mortem & on the basis of evidence noticed by him.

All such certificates of cause of deaths are sent to the local Registrar along with the death report on 5th of every month. **All hospital in-charge are to be instructed not to submit form no. 4 for still births.**

Completeness and accuracy with which the certificate of cause of deaths is filled by the attending physician are of prime importance in building the base of cause of death statistics. It is also important to choose underlying cause of death when two or more morbid conditions might have precipitated to death. This underlying cause of death is to be taken into account for coding of cause of death.

6) **LACUNAE SEEN IN THE CERTIFICATION OF CAUSE OF DEATH IN FORM NO.4, REGARDING MEDICO-LEGAL CASES.**

1. In case of deaths due to violence, the column “Interval between onset and death” cannot be mentioned.

   **Comment:** When the death occurs after admission to the hospital, then only interval between onset and death can be mentioned.

2. In many cases bodies are brought dead from the outside. In such cases it is not possible to write the chain of event leading to death in form no. 4 as the past history of the patient/circumstances of injury is not known.

   **Comment:** In these cases only **“Immediate cause of death”** can be given after postmortem examination while antecedent cause as well as other significant conditions can not be commented since the past history of the patient is not always known. When the cause of death is injury, specify the
nature of injury (e.g. fracture, dislocation, crush injury etc.) along with part of body involved as an immediate cause. It will minimize the percentage of ill defined cause of death category which is 14% (1998)

3. While commenting on “manner of death” it is not always possible to conclude about the exact manner of death. The reason for this is when a dead body is sent for autopsy along with inquest and dead body challan, information furnished by investigating officer is as per his inquiry. During the preliminary inquiry, he may not be able to get correct information. But from later investigations, the situation may appear to be different. In such cases, if the comment is made on manner of death on available information then it may create problems in the court of law. Whenever possible it can be commented but in other cases, instead of helping the judiciary, it may mislead them.

**Comment**: It can be commented only if authentic information is available.

4. Some times cause of death is written as “Body sent for PM”/ “Advised MLC PM” /“Opinion reserved and viscera preserved”

**Comment**: If the medical officer performing post-mortem examination had come to a conclusion about the cause of death it should be written in form no. 4. If the viscera is preserved and opinion about the cause of death is reserved then MCCD should not be sent. Such MCCD certificate should be submitted to the local Registrar mentioning the cause of death after the receipt of chemical analysis report.

In medico-legal post-mortem cases MLPM No., date of admission, date of death, date of notification and post-mortem should be written at top of MCCD form which will facilitate identification of the case.

5. Supplementary information about the cause of death is not written in MCCD form.

**Comment**: When the death is not a natural death (that means the cause of death is related to injury, poisoning and other consequences of external causes [S00 To T98] as in ICD-10) it is important to write the actual injury along with the part of body involved. To facilitate the classification of supplementary causes, it is necessary to specify descriptions of the
circumstances in which the violence had taken place (e.g. fire, explosion, fall, assault, collision and submersion etc.). For transport accidents it is necessary to state the vehicle involved and the type of accident e.g. collision, non-collision, traffic, non-traffic etc. along with the victim’s mode of transport. These details about the accident should be written in the column “How did injury occur”?

Illustration

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between on set &amp; death approx.</th>
</tr>
</thead>
</table>
| (a) Head injury leading to fracture of skull with laceration of brain | ...............................................
| (b) Accidental collision of rickshaw and truck. The victim was a rickshaw driver | ...............................................
| (c) | ...............................................

Manner of Death


Accidental collision of rickshaw and truck. The victim was a rickshaw driver

In case of assault, specific cause should be written e.g. in case of assault by sharp/blunt instrument, drugs, medicament, biological or corrosive substance, gases/vapours chemicals, name of the substance should be written.

In case of deaths due to burns it is very important to specify the extent of injury by rule of nine i.e. % of body surface involved or at least the part of body involved along with the intention of injury i.e. accidental/suicide/homicide if possible.

In case of violent deaths and other medico-legal cases, the cause of death may be written by a medical person who performs postmortem examination, to the best of his knowledge and on the basis of evidence noticed by him. WHO has
stressed that in the Statistical use of the data based on MCCD, necessary safeguards to preserve the confidential nature of the cause of death written in MCCD form, should be provided. This aspect is well taken care in the RBD Act 1969 section 17 (1)(b). (See page no. 3)

7) REPORTING UNITS OF MCCD:

MCCD Certificates from all hospitals and private medical practitioners are collected at the office of local Registrars and are sent to office of Dy. Chief Registrar of Births & Deaths (Maharashtra State) Pune regularly along with the monthly Birth & Death reports. Rural/Cottage hospitals situated at Municipal Council are submitting MCCD certificates to local Registrar i.e. to the Chief Officer, Municipal Council while Rural/Cottage hospitals situated at Grampanchayat are sending MCCD certificates to the local Registrar i.e. Gramsevak of Grampanchayat. MCCD certificates are collected centrally at state headquarters from following reporting units:

**Urban :-**
1) Municipal Corporations 23
2) Municipal Councils 226
3) Cantonment Boards 7
4) Ordnance Factories 4

**Rural :-**
1) Rural/Cottage Hospitals 345
(situated at Grampanchayat are sending MCCD through the respective Grampanchayat)
FLOW OF MCCD FROM URBAN AND RURAL AREAS

**Urban**
- Head of Medical Institutions (All types) in Form No. 4
- Private Medical Practitioners in Form No. 4A
- Medical Superintendent of R.H./C.H. situated at Municipal Council

**Rural**
- Medical Superintendent of R.H./C.H. situated at Grampanchayat

5th of every month

Local Registrar of Births & Deaths Municipal Corporations / Municipal Councils/Cantonment Boards/Ordnance Factories

10th of every month

Dy. Chief Registrar of Births and Deaths and Dy. Director of S.B.H.I. & V.S., Pune On behalf of Chief Registrar of Births and Deaths & DGHS Maharashtra State, Mumbai.

Registrar General,
Govt. of India,
New Delhi.

5th of every month

Local Registrar of Births & Deaths i.e. Gramsevak of Grampanchayat

Additional District Registrar & Block Development Officer, Panchayat Samiti
8) COMPILATION OF DATA:

After the receipt of certificates the coding of cause of death is done centrally according to alphanumeric coding system of ICD – 10\textsuperscript{th} revision. It is cross tabulated (following National list of tabulation) by age, sex and cause of death category in a prescribed format. The data are processed with the help of computers at Data Processing Unit, SBHI &VS, Pune. The annual report is generated and submitted to the Registrar General, GOI, and also published in the Annual Vital Statistics Report (table No. 24) of Maharashtra State, every year.

9) RESPONSIBILITIES OF A PHYSICIAN ABOUT MCCD SCHEME:

1) It is the prime responsibility of a physician/surgeon (who has attended the deceased in his/her last illness) to write cause of death in details to the best of his knowledge in form No. 4 on the basis of the hospital records available. It is obligatory to the attending physician/surgeon to write cause of death under section 10(3) of Registration of Birth and Death Act 1969 and Maharashtra Birth and Death Registration Rules 2000- Rule 7.

2) All morbid conditions are to be written in sequence, starting from immediate cause to underlying cause. It allows the selection of the underlying cause of death, which facilitates the statistical classification of it.

3) The name of the disease is to be written in full form. Abbreviations and short forms of disease/disease conditions should not be used. It puts the statistical office in difficulty at the time of classification of the diseases.

4) Physician should follow the guidelines given by office of the Registrar General, Government of India to write accurate cause of death in form No. 4/4A.

5) Form 4/4A contains a detachable portion at the bottom of the form, which contains only the facts of death certified by physician. This part should be issued to the relative of a deceased so that it will not disclose the cause of death and gives adequate information for death registration, e. g. in case of AIDS deaths, sometimes cause of death is kept confidential. So by using the
detachable slip we can retain the confidentiality of the cause of death.

6) MCCD forms of deaths occurred in the first week of neonatal period should be submitted to the local Registrar.

10) EXPECTATIONS FROM HEAD OF MEDICAL INSTITUTION

(Dean, Medical Colleges/Civil Surgeon, District Hospitals/Medical Superintendent, R.H./C.H. & In-charge of Hospitals)

1. All hospital deaths including medico-legal case deaths are to be covered under MCCD.

2. Cent percent collection of MCCD forms from all wards should be ensured to transmit them to the respective Registrar of B & D, up to 5th of every month.

3. RMO (Clinical/Outreach) in Civil Hospital and Head of the PSM Department in Medical College Hospital may be asked to shoulder the responsibility for monitoring and submission of MCCD.

4. Civil Surgeon should ensure regular submission of MCCD from Rural Hospitals to their respective Registrar.

5. Medical Superintendent of Rural/Cottage Hospitals should submit MCCD forms to the respective Registrar along with the summary report (as shown below) and copy of the summary report should be submitted to the respective Civil Surgeon of the District Hospital.

Medical Certification of Cause of Death

**Monthly Summary Report**

<table>
<thead>
<tr>
<th>Name of Institution: -</th>
<th>Month:-</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>No. of Institutional Deaths</th>
<th>Out of which how many MLC PM/ Clinical PM had been done</th>
<th>No. of MCCD Certificates sent</th>
<th>No. of pending MCCD Certificates</th>
<th>No. of pending MCCD Certificates sent</th>
</tr>
</thead>
</table>

6. Regular review of MCCD in monthly meeting.

7. Training of medical officers in the hospitals may be taken for writing accurate cause of death as per the guidelines given by WHO, in prescribed format.
## ANNEXURE- I
Percentage of Medically Certified Deaths to Total Registered & Registered Urban Deaths Maharashtra

<table>
<thead>
<tr>
<th>Year</th>
<th>Registered Deaths Total</th>
<th>MCCD Received</th>
<th>Percentage of MCCD received to Reg. Deaths Total</th>
<th>Percentage of MCCD received to Reg. Deaths Urban</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>Urban</td>
<td>Month</td>
</tr>
<tr>
<td>1993</td>
<td>445569</td>
<td>209531</td>
<td>129512</td>
<td>29.1</td>
</tr>
<tr>
<td>1994</td>
<td>425999</td>
<td>207571</td>
<td>135132</td>
<td>31.7</td>
</tr>
<tr>
<td>1995</td>
<td>436146</td>
<td>208890</td>
<td>145704</td>
<td>33.4</td>
</tr>
<tr>
<td>1996</td>
<td>453940</td>
<td>222237</td>
<td>148313</td>
<td>32.7</td>
</tr>
<tr>
<td>1997</td>
<td>412066</td>
<td>218461</td>
<td>151541</td>
<td>36.8</td>
</tr>
<tr>
<td>1998</td>
<td>512649</td>
<td>255158</td>
<td>172494</td>
<td>33.6</td>
</tr>
<tr>
<td>1999</td>
<td>510291</td>
<td>247561</td>
<td>170406</td>
<td>33.4</td>
</tr>
<tr>
<td>2000</td>
<td>512330</td>
<td>265149</td>
<td>172714</td>
<td>33.7</td>
</tr>
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<td>2001</td>
<td>512241</td>
<td>254227</td>
<td>173026</td>
<td>33.7</td>
</tr>
<tr>
<td>2002</td>
<td>564485</td>
<td>276901</td>
<td>172995</td>
<td>30.7</td>
</tr>
<tr>
<td>2003</td>
<td>602711</td>
<td>290326</td>
<td>182910</td>
<td>30.4</td>
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<tr>
<td>2004</td>
<td>518533</td>
<td>251810</td>
<td>181294</td>
<td>35.0</td>
</tr>
<tr>
<td>2005</td>
<td>554633</td>
<td>279627</td>
<td>191586</td>
<td>34.5</td>
</tr>
<tr>
<td>2006</td>
<td>565892</td>
<td>269432</td>
<td>209515</td>
<td>37.0</td>
</tr>
<tr>
<td>2007</td>
<td>608598</td>
<td>304524</td>
<td>215045</td>
<td>35.3</td>
</tr>
<tr>
<td>2008</td>
<td>629760</td>
<td>320634</td>
<td>217642</td>
<td>34.6</td>
</tr>
<tr>
<td>2009</td>
<td>*633206</td>
<td>*324768</td>
<td>212335</td>
<td>33.53</td>
</tr>
</tbody>
</table>

* Data for the year 2009 are provisional.
ANNEXURE- V

FORM NO. 4
(See Rule 7)
MEDICAL CERTIFICATION 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 ............ A.M./P.M.

<table>
<thead>
<tr>
<th>NAME OF DECEASED</th>
</tr>
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<tbody>
<tr>
<td>Sex</td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
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</tbody>
</table>

Name and signature of the Medical Attendant certifying the cause of death
Date of certification .................................................................

SEE REVERSE FOR INSTRUCTIONS
(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 Supdt. & Name of Hospital)
MEDICAL CERTIFICATE OF CAUSE OF DEATH

Directions for completing the form

Name of deceased: To be given in full. Do not use initials. If deceased is an infant, not yet named at time of death, write ‘Son of (S/O) or ‘Daughter of (D/O), followed by names of mother and father.

Age: If the deceased was over 1 year of age, give age in completed years. If the deceased was below 1 year of age, give age in months and if below 1 month give age in completed number of days, and if below one day, in hours.

Cause of Death: This part of the form should always be completed by the attending physician personally.

The certificate of cause of death is divided into two parts, I and II. Part I is again divided into three parts, lines (a) (b) (c). If a single morbid condition completely explains the death, then this will be written on line (a) of Part I, and nothing more is needed to be written in the rest of Part I or Part II, for example gastroentritis, lobar pneumonia, rabies are sufficient cause of death and usually nothing more is needed.

Often, however, a number of morbid conditions will have been present at death, and the doctor must then complete the certificate in the proper manner so that the correct underlying cause will be tabulated. First, enter in Part I (a) the immediate cause of death. This does not mean the mode of dying. e.g. heart failure, respiratory failure, etc. These terms should not appear on the certificate at all since they are modes of dying and not causes of death. Next consider whether the immediate cause is a complication or delayed result of some other cause. If so, enter the antecedent cause in part I, line (b). Sometimes there will be three stages in the course of events leading to death. If so, line (c) will be completed. The underlying cause to be tabulated is always written last in Part I.

Morbid conditions or injuries may be present which were not directly related to the chain of events causing death but which contributed in some way to the fatal outcome. Sometimes the doctor finds it difficult to decide, especially for infant deaths, which of several independent conditions was the primary cause of death; but only one cause can be tabulated, so the doctor must decide. If the other diseases are not effects of the underlying cause, they are entered in Part II.

Do not write two or more conditions on a single line. Please write the names of the diseases (in full) in the certificates as legible as possible to avoid the risk of their being misread.

Onset: Complete the column for interval between onset and death whenever possible, even if very approximately, e.g.‘ from birth’ several years.’

Accidental or violent deaths: Both the external cause and the nature of the injury are needed and should be stated. The doctor or hospital should always be able to describe the injury, stating the part of the body injured, and should give the external cause in full when this is shown. Example: (a) Hypostatic pneumonia; (b) Fracture of neck of femur, (c) Fall from ladder at home.

Maternal deaths: Be sure to answer the questions on pregnancy and delivery. This information is needed for all women of child-bearing age, even though the pregnancy may have had nothing to do with the death.

Old age or senility: Old age (or senility) should be not given as a cause of death if a more specific cause is known. If old age was a contributory factor, it should be entered in Part II. Example: (a) Chronic bronchitis, II old age.

Completeness of information: A complete case history is not wanted, but if the information is available enough details should be given to enable the underlying cause to be property classified.

Example: Anaemia - Give type of anaemia, if known, Neoplasms- indicate whether benign or malignant, and site with site of primary neoplasm, whenever possible, Heart disease-Describe the condition specifically, if congestive heart failure, chronic on pulmonale, etc are mentioned, give the antecedent conditions. Tetanus-Describe the antecedent injury, if known. Operation-State the condition for which the operation was performed. Dysentery-Specify whether bacillary, amoebic, etc, if know. Complications of pregnancy or delivery-Describe the complication specifically Tuberculosis-Give organs affected.

Symptomatic statement: Convulsions, diarrhoea, fever, ascites, jaundice, debility etc. are symptoms which may be due to any one of a number of different conditions. Sometimes nothing more is know, but whenever possible, give the disease which caused the symptom.

Manner of Death: Deaths not due to external cause should be identified as ‘Natural.’ If the cause of death is known, but it is not known whether it was the result of an accident suicide or homicide and is subject to further investigation, the cause of death should invariably be filled in and the manner of death should be shown as ‘Pending investigation’.
ANNEXURE- VI

FORM NO. 4A
(See Rule 7)
MEDICAL CERTIFICATION 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 of /wife of/ daughter 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 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 Months</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.

(a) ...............................................
Due to (or as a consequences of)

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

(b) ...............................................
Due to (or as a consequences of)

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

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

Interval between on set & death approx.

If deceased was a female, was the death associated with pregnancy ? 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 certification ...........................................................

SEE REVERSE FOR INSTRUCTIONS
(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 ..........................................................
(Name of Doctor)
MEDICAL CERTIFICATE OF CAUSE OF DEATH

Directions for completing the form

Name of deceased : To be given in full. Do not use initials. If deceased is an infant, not yet named at time of death, write, ‘Son of (S/O) or ‘Daughter of (D/O), followed by names of mother and father.

Age : If the deceased was over 1 year of age, give age in completed years. If the deceased was below 1 year of age, give age in months and if below 1 month give age in completed number of days, and if below one day, in hours.

Cause of Death : This part of the form should always be completed by the attending physician personally.

The certificate of cause of death is divided into two parts, I and II, Part I is again divided into three parts, lines (a) (b) (c). If a single morbid condition completely explains the death, then this will be written on line (a) of Part I, and nothing more is needed to be written in the rest of Part I or Part II, for example gastroenteritis, lobar pneumonia are sufficient cause of death and usually nothing more is needed.

Often, however, a number of morbid conditions will have been present at death, and the doctor must then complete the certificate in the proper manner so that the correct underlying cause will be tabulated. First, enter in Part I (a) the immediate cause of death. This does not mean the mode of dying. e.g. heart failure, respiratory failure, etc. These terms should not appear on the certificate at all since they are modes of dying and not causes of death. Next consider whether the immediate cause is a complication or delayed result of some other cause. If so, enter the antecedent cause in part I, line (b). Sometimes there will be three stages in the course of events leading to death. If so, line (c) will be completed. The underlying cause to be tabulated is always written last in Part I.

Morbid conditions or injuries may be present which were not directly related to the chain of events causing death but which contributed in some way to the fatal outcome. Sometimes the doctor finds it difficult to decide, especially for infant deaths, which of several independent conditions was the primary cause of death; but only one cause can be tabulated, so the doctor must decide. If the other diseases are not effects of the underlying cause, they are entered in Part II.

Do not write two or more conditions on a single line. Please write the names of the diseases (in full) in the certificates as legible as possible to avoid the risk of their being misread.

Onset : Complete the column for interval between onset and death whenever possible, even if very approximately, e.g. ‘from birth’ several years.

Accidental or violent deaths : Both the external cause and the nature of the injury are needed and should be stated. The doctor or hospital should always be able to describe the injury, stating the part of the body injured, and should give the external cause in full when this is shown. Example: (a) Hypostatic pneumonia; (b) Fracture of neck of lemur, (c) fall from ladder at home.

Maternal deaths : Be sure to answer the questions on pregnancy and delivery. This information is needed for all women of child-bearing age, even though the pregnancy may have had nothing to do with the death.

Old age or senility: Old age (or senility) should be not given as a cause of death if a more specific cause is known. If old age was a contributory factor, it should be entered in Part II. Example: (a) Chronic bronchitis, II old age.

Completeness of information : A complete case history is not wanted, but if the information is available enough details should be given to enable the underlying cause to be properly classified.

Example : Anaemia - Give type of anaemia, if known, Neoplasms- indicate whether benign or malignant, and site with site of primary neoplasm, whenever possible, Heart disease-Describe the condition specifically, if congestive heart failure, chronic on pulmonale, etc are mentioned, give the antecedent conditions. Tetanus -Describe the antecedent injury, if known. Operation-State the condition for which the operation was performed. Dysentery-Specify whether bacillary, amoebic, etc, if know. Complications of pregnancy or delivery-Describe the complication specifically Tuberculosis-Give organs affected.

Symptomatic statement: Convulsions, diarrhoea, fever, ascites, jaundice, debility etc. are symptoms which may be due to any one of a number of different conditions. Sometimes nothing more is known, but whenever possible, give the disease which caused the symptom.
MCCD_Training_Module

PART - II
1) SALIENT FEATURES OF INTERNATIONAL CLASSIFICATION OF DISEASES – 10th REVISION - (ICD-10)

A Classification of diseases may be defined as a system of categories to which morbid entities are assigned according to established criteria.

**1.1 Purpose and applicability** :-

The purpose of the ICD is to permit systematic recording, analysis, interpretation and comparison of morbidity and mortality data collected in different countries or areas and at different times. The ICD is used to translate diagnosis of diseases and other health related problems from words into an alphanumeric code, which permits easy storage, retrieval and analysis of data. Its original use was to classify causes of mortality as recorded at the time of registration of death. Now the revised ICD-10 provides not only diagnosis but also wide variety of signs, symptoms, abnormal findings, complaints and social circumstances that may stand in place of a diagnosis on health records. From these records statistics and other information on health situations are derived. So ICD has become the international standard for diagnostic classification for all general epidemiological studies and health management purposes.

**1.2 Concept of the “family” of diseases and health related classification:**-

It was felt that main ICD alone (the three and four character classification) could not incorporate all the additional information and remain accessible and relevant to its traditional users. So the idea arose of a ‘family’ of disease and health related classification including volumes published separately from the main ICD, to be used as required. e. g. ICD-O (Oncology) was published in 1990 which contains coded nomenclature for the morphology of Neoplasms in conjunction with chapter II of ICD –10. These types of classifications can be used at speciality hospitals to maintain the disease specific morbidity and mortality data.

The core classification of ICD-10 is the three-character code, which is the mandatory level of coding for international reporting to the WHO mortality database and for general international comparisons.
There are two main types of classifications. First group covers data related to diagnosis and health status and are derived directly from the ICD by either condensation or expansion of the tabular list. The condensed lists can be used for many kinds of data presentation, for summary statistical tables, and potentially for information that supports the development of primary health care. The expanded lists are used to obtain increased clinical details as in the specialty-based adaptations. This group also includes classification complementary to the tabular list, and allows the allocation of diagnosis using different axis of classification, such as morphology of tumors. The second group of classification not related to formal diagnosis, includes classification of disablement’s of medical and surgical procedures and of reasons for contact with health care provider e.g. carrier of infectious disease, adjustment and management of implanted/ prosthetic device / transplants etc.

1.3 The basic structure and principles of classification of ICD-10:

A statistical classification of disease must be confined to a limited number of exclusive categories, able to encompass the whole range of morbid conditions. A specific disease entity that is of particular public Health importance or occurs frequently, should have its own category e.g. pulmonary tuberculosis, malaria etc. ICD-10 has developed as a practical, rather than purely theoretical classification, in which there are a number of compromises between classification based on aetiology, anatomical site, circumstances of onset etc.

The classification pattern shows the structure suggested by Mr. William Farr in the early days of international discussions, which is proved the most useful structure for general epidemiological purposes. It starts with epidemic diseases, then constitutional or general disease, local disease arranged by site, developmental disease followed by injuries and poisoning.

1.4 The Role of WHO:

ICD-10 is the product of very closed collaboration between non governmental organization, other agencies and divisions and units of WHO. The role of WHO in the development of new classifications, adaptations, is to provide cooperative leadership and to act as a clearinghouse giving technical advice,
guidance and support when needed.

1.5 Volumes of ICD-10:

1.5.1 Volume- I:

ICD-10 has three volumes, out of these first contains main classification of diseases and related health problems. It is composed of the list of three character categories and four character sub categories.

It also contains morphology of neoplasms special (morbidity & mortality) tabulation lists, standard definitions (adopted by World Health Assembly to facilitate the international comparability of health statistics and regulations regarding nomenclature).

Chapters of ICD-10:- Volume- I

The core classification of ICD-10 is divided into 21 chapters. The first character of ICD code is a letter & is associated with a particular chapter e.g. C-is related to Neoplasm, O- is related to diseases related to pregnancy, child birth and puerperium----

I) Certain infectious and parasitic diseases (A00-B99)
II) Neoplasms (C-00 to D-48)
III) Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D-50 to D-89)
IV) Endocrine, nutritional and metabolic diseases (E-00 to E-90)
V) Mental and behavioural disorders (F-00 to F-99)
VI) Diseases of the nervous system (G00 to G-99)
VII) Diseases of the eye and adnexa (H-00 to H-59)
VIII) Diseases of the ear and mastoid process (H-60 to H-95)
IX) Diseases of the circulatory system (I-00 to I-99)
X) Diseases of the respiratory system (J-00 to J-99)
XI) Diseases of the digestive system (K-00 to K-99)
XII) Diseases of the skin and subcutaneous tissue (L-00 to L-99)
XIII) Diseases of the musculoskeletal system and connective tissue (M-00 to M-99)
XIV) Diseases of the genitourinary system (N-00 to N-99)
XV) Pregnancy, childbirth and the puerperium (O-00 to O-99)
XVI) Certain conditions originating in the perinatal period (P-00 to P-96)
XVII) Congenital malformations, deformities and chromosomal abnormalities (Q-00 to Q-99)
XVIII) Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R-00 to R-99)
XIX) Injury, poisoning and certain other consequences of external causes (S-00 to S-99 and T-00 to T-98)
XX) External causes of morbidity and mortality (V-01 to V-99 and W-00 to W-99 and X-00 to X-99 and Y-00 to Y-98)
XXI) Factors influencing health status and contact with health services. (Z-00 to Z-99)

Out of XXI Chapters I to XVII are related to diseases & other morbid conditions. Chapter XVIII is related to symptoms, signs and abnormal clinical & laboratory findings. Chapter XIX is related to injury, poisoning and certain other consequences of external causes. The former (ICD-9) supplementary classifications of external causes of injuries and poisoning and factors influencing health status and contact with health services now form part of main classification and have been placed separately at chapter XX & XXI respectively.

These Chapters are subdivided into homogenous “blocks” of three character categories. Within the chapter the axes of classification depend upon mode of transmission or broad groups of infecting organisms. In case of neoplasm (chapter II) the axis of classification is the behavior of neoplasm or its morphological type. Within each block, some of the three character categories are for single condition, selected because of their frequency, severity or susceptibility to public health intervention, while others are for groups of diseases with some common characteristic. There is usually provision for “other” & unspecified conditions to be classified. Three character categories are subdivided by means of fourth numeric character after a decimal point allowed up
to ten subcategories. e.g. (B 20.0 to B 20.9). Statistical coding starting with alphabet “U-00 to U-49 is kept reserved and will be used for provisional assignment or newly emerged diseases of uncertain etiology and code U-50 U-99 may be used in research works.

1.5.2 Volume- II:-

This volume contains guidelines for recording and coding of causes of deaths on the basis of underlying cause of death and instructions for its use.

1.5.3 Volume- III:-

Third volume of ICD-10 includes alphabetical index with an introduction and expanded instructions on its use.

1.6 Inclusion of newly emerged diseases like HIV/AIDS in ICD-10 :-

AIDS - Acquired Immuno-Deficiency Syndrome is a fatal illness caused by retrovirus known as Human Immuno-Deficiency Virus (HIV) by which the total immune system is collapsed leaving the victim vulnerable to a host of life-threatening opportunistic infections, neurological disorders & unusual malignancies. The peculiar feature of AIDS is that once a person is infected, then morbid condition remains forever. The real measure of the epidemic is number of people infected with HIV infection. Number of AIDS cases today gives foretaste rather than a true reflection of the health crisis. It is the last stage of the infection of HIV virus, which will give rise to the signs and symptoms according to acquired opportunistic infections.

So the data collected about AIDS deaths through the Medical Certification of Cause of Death will definitely help to gauge the magnitude of the problem in the community. It will also give the information about the associated diseases causing the death.
1.6.1 Immunology:

Due to HIV infection, immune mechanism is broken down because of gradual depletion in a specialised group of white blood cells (lymphocytes) called as T-helper cells or T-4 cells. As the disease progresses following clinical features are seen in HIV infected patients.

1) Initial infection with HIV virus and development of antibodies.
2) Asymptomatic carrier stage
3) AIDS related complex
4) AIDS case.

An alarming factor in the AIDS epidemic is increasing link between HIV infection and tuberculosis. One of the aspects of monitoring the epidemiology of disease is regular reporting. It is very important to write down detailed cause of death that means chain of events leading to death along with the seropositive status of the deceased while reporting cause of death as AIDS in form No. 4 (Institutional Deaths) and 4A (Non-institutional deaths but certified by medical practitioners). In case of AIDS death a single or multiple opportunistic infections may results in fatal outcome. So all details about the infectious and parasitic diseases/malignancies/cerebral manifestations or other specific condition should be written in the form 4/4A. It should be noted that death of a woman due to HIV while pregnant or within 42 days of termination of pregnancy, details about HIV status as well as pregnancy/puerperium should be written in MCCD form. This will focus on maternal mortality due to AIDS.

Documentation of detailed cause of death will facilitate deriving the authentic information on AIDS deaths and the trends and differentials in overall mortality related to HIV infection. For this purpose a medical person should know the correct diagnosis of AIDS case as per the guidelines given by National AIDS Control Organisation (NACO), New Delhi. (see Annexure -I)
2) **IMPORTANCE OF WRITING ACCURATE SEQUENCE OF IMMEDIATE CAUSE, ANTECEDENT CAUSE AND UNDERLYING CAUSE OF DEATH IN FORM NO. 4/4A.**

*Following are some case studies where the correct method of writing cause of death in form no. 4/4A is illustrated.*

1. 59 Years old male was admitted to the hospital with shock & with signs of septicemia along with gangrene of (Lt) foot. Patient had swelling of Lt. foot and fever since 3 days. He had H/O COPD due to chronic bronchitis and had Diabetes since 5 years. Patient had diagnosed as C/O carcinoma of pancreas and operated for the same 5 years back. Patient died 2 days after admission due to septicaemic shock.

<table>
<thead>
<tr>
<th>Incorrect Cause of Death</th>
<th>Interval between onset &amp; death approx.</th>
<th>Correct Cause of Death</th>
<th>Interval between onset &amp; death approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAUSE OF DEATH</strong></td>
<td></td>
<td><strong>CAUSE OF DEATH</strong></td>
<td></td>
</tr>
<tr>
<td>I</td>
<td></td>
<td>I</td>
<td></td>
</tr>
<tr>
<td>Immediate cause</td>
<td></td>
<td>Immediate cause</td>
<td></td>
</tr>
<tr>
<td>State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</td>
<td>(a) <em>Diabetes Mellitus</em> Due to (or as a consequences of)</td>
<td>(a) <em>Septicaemic shock</em>.. Due to (or as a consequences of)</td>
<td></td>
</tr>
<tr>
<td>Antecedent cause</td>
<td></td>
<td>Antecedent cause</td>
<td></td>
</tr>
<tr>
<td>Morbid conditions, if any, giving rise to The above Cause, stating underlying Condition last</td>
<td>(b) <em>Gangrene of (Lt) foot</em> Due to (or as a consequences of)</td>
<td>(b) <em>Gangrene of (Lt) foot</em> Due to (or as a consequences of)</td>
<td></td>
</tr>
<tr>
<td>(c) <em>Carcinoma of pancreas &amp; Chronic bronchitis</em></td>
<td></td>
<td>(c) <em>Diabetes Mellitus</em></td>
<td></td>
</tr>
<tr>
<td>II</td>
<td></td>
<td>II</td>
<td></td>
</tr>
<tr>
<td>Other significant conditions contributing To the death but not related to the disease Or conditions causing it</td>
<td></td>
<td>(d) <em>Ca Pancreas</em></td>
<td></td>
</tr>
<tr>
<td><strong>Manner of Death</strong></td>
<td></td>
<td><strong>Manner of Death</strong></td>
<td></td>
</tr>
<tr>
<td>1Natural 2 Accident 3 Suicide 4 Homicide 5 Pending Investigation</td>
<td></td>
<td>1 Natural 2 Accident 3 Suicide 4 Homicide 5 Pending Investigation</td>
<td></td>
</tr>
</tbody>
</table>
2. 34 years old female met an accident while crossing the road and dashed by a car and had a crushed injury to thorax 2 hours back. Patient was admitted to the hospital in shock showing profused haemorrhage. Patient died ½ hour after admission due to haemorrhagic shock. Being a Medico-legal case body sent for PM. Post mortem findings were suggestive of multiple rib fractures and haemorrhagic shock due to rupture of lungs and internal organs of thorax.

<table>
<thead>
<tr>
<th>Incorrect Cause of Death</th>
<th>Correct Cause of Death</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAUSE OF DEATH</strong></td>
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</tr>
<tr>
<td>Immediate cause</td>
<td>Immediate cause</td>
</tr>
<tr>
<td>State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</td>
<td>State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</td>
</tr>
<tr>
<td>Antecedent cause</td>
<td>Antecedent cause</td>
</tr>
<tr>
<td>Morbid conditions, if any, giving rise to The above Cause, stating underlying condition last</td>
<td>Morbid conditions, if any, giving rise to the above Cause, stating underlying condition last</td>
</tr>
<tr>
<td>II Other significant conditions contributing to the death but not related to the disease Or conditions causing it</td>
<td>II Other significant conditions contributing to the death but not related to the disease Or conditions causing it</td>
</tr>
</tbody>
</table>

**Manner of Death –**

1Natural  2 Accident  3 Suicide  4 Homicide  5 Pending Investigation

How did injury occur ? *Road traffic Accident*

**Manner of Death –**

1Natural  2 Accident  3 Suicide  4 Homicide  5 Pending Investigation

How did injury occur ? *Patient was pedestrian and dashed by a car*
3. 22 years old female admitted to the hospital in unconscious stage and had history of vomiting. Patient was in shock and had systolic blood pressure 80 mm of Hg. She had H/o consumption of organophosphorus compound 6 hours back with intention of selfharm showing pin point pupils, fasciculations. After 2 hours patient developed respiratory paralysis and pulmonary oedema. Patient was resuscitated but died 4 hours after admission. Body sent for PM.

<table>
<thead>
<tr>
<th>Incorrect Cause of Death</th>
<th>Interval between onset &amp; death approx.</th>
<th>Correct Cause of Death</th>
<th>Interval between onset &amp; death approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAUSE OF DEATH</strong></td>
<td></td>
<td><strong>CAUSE OF DEATH</strong></td>
<td></td>
</tr>
<tr>
<td>I Immediate cause</td>
<td>(a) PM done</td>
<td>I Immediate cause</td>
<td>(a) Respiratory paralysis with pulmonary oedema</td>
</tr>
<tr>
<td>State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</td>
<td>Due to (or as a consequences of)</td>
<td>State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</td>
<td>Due to (or as a consequences of)</td>
</tr>
<tr>
<td>Antecedent cause</td>
<td>(b) _______________________</td>
<td>Antecedent cause</td>
<td>(b) Poisoning by consumption of organophosphorus compound</td>
</tr>
<tr>
<td>Morbid conditions, if any, giving rise to the above Cause, stating underlying condition last</td>
<td>Due to (or as a consequences of)</td>
<td>Morbid conditions, if any, giving rise to the above Cause, stating underlying condition last</td>
<td>Due to (or as a consequences of)</td>
</tr>
<tr>
<td>II Other significant conditions contributing to the death but not related to the disease or conditions causing it</td>
<td>Nil</td>
<td>II Other significant conditions contributing to the death but not related to the disease or conditions causing it</td>
<td>Nil</td>
</tr>
</tbody>
</table>

**Manner of Death –**
1 Natural  2 Accident  3 Suicide  4 Homicide  5 Pending Investigation

**Manner of Death –**
1 Natural  2 Accident  3 Suicide  4 Homicide  5 Pending Investigation
4. 70 years old female was admitted to the hospital for fracture neck femur 6 hours back due to fall in a bathroom. She was known diabetic since 10 years and hypertensive since 15 years. Open reduction of the fracture was advised but operative was delayed for fitness, as BSL was not within normal limits. On 6\textsuperscript{th} day patient deteriorated becoming severe breathless and had sudden collapse showing signs of pulmonary embolism. Patient died after 5 hours.

<table>
<thead>
<tr>
<th>Incorrect Cause of Death</th>
<th>Interval between onset &amp; death approx.</th>
<th>Correct Cause of Death</th>
<th>Interval between onset &amp; death approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAUSE OF DEATH</strong></td>
<td></td>
<td><strong>CAUSE OF DEATH</strong></td>
<td></td>
</tr>
<tr>
<td>I Immediate cause</td>
<td></td>
<td>I Immediate cause</td>
<td></td>
</tr>
<tr>
<td>State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</td>
<td>Due to (or as a consequences of) (a) Fracture neck femur by fall</td>
<td>State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</td>
<td>Due to (or as a consequences of) (a) Pulmonary embolism</td>
</tr>
<tr>
<td>Antecedent cause</td>
<td></td>
<td>Antecedent cause</td>
<td></td>
</tr>
<tr>
<td>Morbid conditions, if any, giving rise to The above Cause, stating underlying condition last</td>
<td>Due to (or as a consequences of) (b) Pulmonary embolism</td>
<td>Morbid conditions, if any, giving rise to the above Cause, stating underlying condition last</td>
<td>Due to (or as a consequences of) (b) Fracture neck femur</td>
</tr>
<tr>
<td>Condition last</td>
<td></td>
<td>Condition last</td>
<td></td>
</tr>
<tr>
<td>II Other significant conditions contributing to the death but not related to the disease or conditions causing it</td>
<td>(c) Diabetes mellitus and Hypertension</td>
<td>Other significant conditions contributing to the death but not related to the disease or conditions causing it</td>
<td>(c) Fall in bathroom</td>
</tr>
</tbody>
</table>

**Diabetes mellitus and Hypertension**

**Fall in bathroom**

<table>
<thead>
<tr>
<th>Manner of Death –</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1Natural 2 Accident 3 Suicide 4 Homicide 5 Pending Investigation</td>
<td>1Natural 2 Accident 3 Suicide 4 Homicide 5 Pending Investigation</td>
</tr>
</tbody>
</table>
5. 25 years old female, 4th para, had a full term normal delivery at home. On 5th day of puerperium she started high grade fever. Fever was neglected for 3 days. On 8th day of puerperium patient was shifted to the hospital. O/E patient was febrile, had foul smelling vaginal discharge. Uterus was not involuted and had tenderness over both fornices. On investigations patient found severely anaemic (Hb - 4.5gm%). Patient was treated vigorously. On the same day patient had oliguria, hypotension and had acute renal failure due to puerperal sepsis. Patient died on 9th day of puerperium.

Incorrect Cause of Death

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Immediate cause</td>
<td></td>
</tr>
<tr>
<td>State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</td>
<td></td>
</tr>
<tr>
<td>Antecedent cause</td>
<td></td>
</tr>
<tr>
<td>Morbid conditions, if any, giving rise to the above Cause, stating underlying condition last</td>
<td></td>
</tr>
<tr>
<td>II Other significant conditions contributing to the death but not related to the disease or conditions causing it</td>
<td>Nil</td>
</tr>
</tbody>
</table>

Correct Cause of Death

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Immediate cause</td>
<td></td>
</tr>
<tr>
<td>State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</td>
<td></td>
</tr>
<tr>
<td>Antecedent cause</td>
<td></td>
</tr>
<tr>
<td>Morbid conditions, if any, giving rise to the above Cause, stating underlying condition last</td>
<td></td>
</tr>
<tr>
<td>II Other significant conditions contributing to the death but not related to the disease or conditions causing it</td>
<td>Severe anaemia</td>
</tr>
</tbody>
</table>

Manner of Death

How did the injury occur? N. A.


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

If yes, was there a delivery? 1. Yes 2. No

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

If yes, was there a delivery? 1. Yes 2. No
### CASE BANK

#### 3.1 Part-A

Here are some case studies with accurate cause of death written according to the guidelines given in ICD-10. You have to select and write appropriate code no. by referring to ICD-10.

1. 62 yrs. old female was diagnosed as a case of adenocarcinoma of rectum 2 years back and operated for the same. She was admitted to a hospital for recurrent carcinoma of rectum with invasion of urinary bladder and metastases throughout the abdomen. Patient was known diabetic since 10 years. On 5th day of admission patient became febrile and breathless and developed pneumonia. Patient remained critical and died on 6th day of admission.

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Immediate cause</td>
<td>(a) Pneumonia</td>
<td>Due to (or as a consequences of)</td>
</tr>
<tr>
<td>Antecedent cause</td>
<td>(b) Metastatic cancer of bladder and abdomen</td>
<td>Due to (or as a consequences of)</td>
</tr>
<tr>
<td>(c) Adenocarcinoma of rectum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>II Other significant conditions contributing to the death but not related to the disease or conditions causing it</td>
<td>Diabetes Mellitus</td>
<td>10 Years</td>
</tr>
</tbody>
</table>

Manner of Death –

1 Natural  2 Accident  3 Suicide  4 Homicide  5 Pending Investigation

Primary lesion of neoplasm (carcinoma) is taken as an underlying cause of death even though the signs and symptoms of immediate cause are related to the metastatic lesion of primary carcinoma.

2. A lady aged 23 years was admitted to a hospital. She had H/O suicidal burn because of pouring of kerosene and burnt herself. O/E patient had 78% burn (superficial & deep). She developed septicemia and died after 3 days of admission.

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Immediate cause</td>
<td>(a) Septicemic shock</td>
<td>Due to (or as a consequences of)</td>
</tr>
<tr>
<td>Antecedent cause</td>
<td>(b) Burn 78% (deep &amp; superficial)</td>
<td>Due to (or as a consequences of)</td>
</tr>
<tr>
<td>(c) Intentional self-harm by fire and flames</td>
<td></td>
<td>by 3 days back</td>
</tr>
<tr>
<td>II Other significant conditions contributing to the death but not related to the disease or conditions causing it</td>
<td>Nil</td>
<td></td>
</tr>
</tbody>
</table>

Manner of Death –

1 Natural  2 Accident  3 Suicide  4 Homicide  5 Pending Investigation

How did injury occur? Patient had done intentional self-harm (suicide) due to burns which resulted in superficial & deep burn extending - 78 %
Nature of injury, the part of the body injured and whether the death is accidental/suicidal/homicidal should be written along with the circumstances of accident.

3. A 64 years old female, a known diabetic, was on insulin since 12 years. She had an ischaemic heart disease since 5 years for which she was under treatment. Since 15 days patient was C/O scanty urine (oliguria) and puffiness of face. Patient was admitted and investigated which showed signs of acute renal failure with hyperglycemia. Even after vigorous treatment with fluids, electrolytes, insulin patient’s hyperglycemic stage was resolved. However she remained anuric. Attempts of renal dialysis were unsuccessful and patient died on seventh hospital day due to acute renal failure.

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a) Immediate cause</td>
<td>(a) <strong>Acute renal failure</strong></td>
<td>7 day</td>
</tr>
<tr>
<td>State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b) Antecedent cause</td>
<td>(b) <strong>Nephropathy</strong></td>
<td></td>
</tr>
<tr>
<td>Morbid conditions, if any, giving rise to the above Cause, stating underlying condition last</td>
<td></td>
<td></td>
</tr>
<tr>
<td>II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other significant conditions contributing to the death but not related to the disease or conditions causing it</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Manner of Death –

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

4. 26 years old, 2\textsuperscript{nd} para delivered a male child (having completed 32 weeks of gestation) on 15.12.2000 at 7.30 pm. A baby was premature having birth weight 1350 grams. After birth baby had respiratory distress. O/E baby was hypothermic and had blood stained froth at nostrils and mouth. Inspite of treatment baby deteriorated and died on 16.12.2000 at 5.30 a.m. The diagnosis was suggestive of pulmonary haemorrhage.

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immediate cause</td>
<td>(a) <strong>Pulmonary haemorrhage</strong></td>
<td>10 hours back</td>
</tr>
<tr>
<td>State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antecedent cause</td>
<td>(b) <strong>Respiratory distress and hypothermia</strong></td>
<td>10 hours back</td>
</tr>
<tr>
<td>Morbid conditions, if any, giving rise to the above Cause, stating underlying condition last</td>
<td></td>
<td></td>
</tr>
<tr>
<td>II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other significant conditions contributing to the death but not related to the disease or conditions causing it</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Manner of Death –

1. Natural 2 Accident 3 Suicide 4 Homicide 5 Pending Investigation
5. 24 years old male, a motorbike rider was admitted to a hospital with H/o road traffic accident (dashed by truck). O/E patient was unconscious and had bleeding through ears and nostrils and had convulsion. X-ray showed fracture of skull. Patient died 4 hours after admission.

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immediate cause</td>
<td>(a) Fracture of skull</td>
<td></td>
</tr>
<tr>
<td>State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</td>
<td>Due to (or as a consequences of)</td>
<td></td>
</tr>
<tr>
<td>Antecedent cause</td>
<td>(b) Collision between motorcycle and truck.</td>
<td></td>
</tr>
<tr>
<td>Morbid conditions, if any, giving rise to the above Cause, stating underlying condition last</td>
<td>Due to (or as a consequences of)</td>
<td></td>
</tr>
<tr>
<td>(c) ________</td>
<td></td>
<td></td>
</tr>
<tr>
<td>II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other significant conditions contributing to the death but not related to the disease</td>
<td>Nil</td>
<td></td>
</tr>
</tbody>
</table>

Manner of Death –

How did injury occur? The victim was a motor cycle rider died in traffic accident.

6. 26 years old third para, had full termed normal delivery on 15th Dec. 2000 at home. On 5th day she had a high degree fever and severe pain in abdomen. On next day she was shifted to the hospital. O/E doctors noticed that she was in shock and having foul smelling discharge per vagina. Immediately the treatment was started but after 8 hours patient died on 22-12-2000. Relatives gave history that she was treated for severe anaemia in second trimester.

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a) Immediate cause</td>
<td>(a) Septicemic shock</td>
<td></td>
</tr>
<tr>
<td>State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</td>
<td>Due to (or as a consequences of)</td>
<td></td>
</tr>
<tr>
<td>Antecedent cause</td>
<td>(b) Puerperal sepsis</td>
<td></td>
</tr>
<tr>
<td>Morbid conditions, if any, giving rise to the above Cause, stating underlying condition last</td>
<td>Due to (or as a consequences of)</td>
<td></td>
</tr>
<tr>
<td>(c) ________</td>
<td></td>
<td></td>
</tr>
<tr>
<td>II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other significant conditions contributing to the death but not related to the disease</td>
<td>Anaemia</td>
<td></td>
</tr>
</tbody>
</table>

Manner of Death

How did the injury occur?
5. Pending investigation

If deceased was a female, was the death associated with pregnancy? 1. Yes 2. No
If yes, was there a delivery? 1. Yes 2. No
7. A 31-year-old male had tuberculosis since 11 months. He was taking treatment and remained defaulter. One month back he relapsed and again had cough, fever and loss of weight along with intermittent diarrhoea. Even after treatment he had not responded to the treatment. Since 2 days he had severe cough with respiratory distress along with massive haemoptysis. On the day of admission investigations were done including HIV status. Patient was HIV positive, which was confirmed by ELISA test with two different media. Patient worsened and died on 4th day of admission.

**CAUSE OF DEATH**

<table>
<thead>
<tr>
<th>Immediate cause</th>
<th>Antecedent cause</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Haemoptysis</td>
<td>Morbid conditions, if any, giving rise to the above Cause, stating underlying condition last</td>
<td>6 days</td>
<td></td>
</tr>
<tr>
<td>(b) Pulmonary tuberculosis</td>
<td></td>
<td>11 Months</td>
<td></td>
</tr>
<tr>
<td>(c) Acquired Immunodeficiency Syndrome</td>
<td>Due to (or as a consequences of) HIV positive status was confirmed by ELISA with two different media</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(d) Human Immunodeficiency Virus infection</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Manner of Death** –


In case of AIDS deaths it is necessary to write immediate cause of death in details along with the HIV positive status of the patient which confirms him/her as a case of AIDS in the above case. Actually the cause of death was pulmonary tuberculosis but underlying cause was HIV infection, which had laid the patient towards pulmonary tuberculosis infection and worsened the condition because of diminished immunity.

8. A male patient, aged 54 years was admitted to hospital on 11/1/2001 complaining of pain in abdomen since 3 days and on 11/1/2001 he had a fecal vomitus and developed high degree fever. O/E and further investigation it was diagnosed as a case of strangulated inguinal hernia. Patient was under gone laparotomy along with resection anastomosis of small intestine on 12-1-2001. On third day of operation (14-1-2001) patient started showing signs of peritonitis, deteriorated and died on 15-1-2001. Patient had H/O myocardial infarction 1 year back.

**CAUSE OF DEATH**

<table>
<thead>
<tr>
<th>Immediate cause</th>
<th>Antecedent cause</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Peritonitis</td>
<td>Morbid conditions, if any, giving rise to the above Cause, stating underlying condition last</td>
<td>1 day</td>
<td></td>
</tr>
<tr>
<td>(b) Strangled inguinal hernia</td>
<td></td>
<td>5 days</td>
<td></td>
</tr>
<tr>
<td>(c) Myocardial infarction</td>
<td>Due to (or as a consequences of)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Manner of Death** –

9. 47 years old male who was chronic alcoholic admitted to the hospital with massive haematemesis since ½ an hour. After investigations it was noticed that he was a case of portal hypertension due to liver cirrhosis. On second day patient died due to haemorrhagic shock due to haematemesis. Patient was habitual alcohol drinker since 15 years.

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Immediate cause</td>
<td>(a) Haemorrhagic Shock Due to (or as a consequences of)</td>
<td>1 day</td>
</tr>
<tr>
<td>Antecedent cause</td>
<td>(b) Haematemesis Due to (or as a consequences of)</td>
<td>1 day</td>
</tr>
<tr>
<td></td>
<td>(c) Portal Hypertension</td>
<td>-------</td>
</tr>
<tr>
<td></td>
<td>(d) Cirrhosis of Liver due to chronic alcoholism</td>
<td>H/O alcoholism since 15 years</td>
</tr>
<tr>
<td>II Other significant conditions contributing to the death but not related to the disease or conditions causing it</td>
<td>Nil</td>
<td></td>
</tr>
</tbody>
</table>

Manner of Death – 1 Natural 2 Accident 3 Suicide 4 Homicide 5 Pending Investigation

10. 64 years old male was admitted to a hospital with H/O unconsciousness since 2 hours. He had H/O bronchial asthma since 20 years and had previous admissions to the hospital for chronic pyelonephritis. On investigations he was found hypertensive and had history of same since 3 years. Diagnosis was cerebral haemorrhage. Patient died 5 days after admission.

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Immediate cause</td>
<td>(a) Raised intracranial tension due to cerebral haemorrhage Due to (or as a consequences of)</td>
<td>5 days</td>
</tr>
<tr>
<td>Antecedent cause</td>
<td>(b) Hypertension Due to (or as a consequences of)</td>
<td>3 years</td>
</tr>
<tr>
<td></td>
<td>(c) Chronic Pyelonephritis</td>
<td>20 years</td>
</tr>
<tr>
<td>II Other significant conditions contributing to the death but not related to the disease or conditions causing it</td>
<td>Bronchial Asthma</td>
<td></td>
</tr>
</tbody>
</table>

Manner of Death – 1 Natural 2 Accident 3 Suicide 4 Homicide 5 Pending Investigation
Part- B
Write down the accurate cause of death of following case studies and appropriate code no. by referring ICD-10.

11. 49 years old male was admitted to the hospital with complaints of midepigastric and left-sided chest pain for last 3 hours. The pain radiated to his left arm and was accompanied by nausea and vomiting. He had H/O occasional chest discomfort & syncopal episodes 6 months back. Patient was known hypertensive since 5 years. O/E he was found to be in shock. Patient was shifted to ICU. ECG showed changes suggestive of acute myocardial infarction. He died 2 hours after admission.

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Immediate cause</td>
<td>(a) ----------------------------------------</td>
<td>Due to (or as a consequences of)</td>
</tr>
<tr>
<td>State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antecedent cause</td>
<td>(b) ----------------------------------------</td>
<td>Due to (or as a consequences of)</td>
</tr>
<tr>
<td>Morbid conditions, if any, giving rise to the above Cause, stating underlying condition last</td>
<td></td>
<td></td>
</tr>
<tr>
<td>II Other significant conditions contributing to the death but not related to the disease or conditions causing it</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Manner of Death –
1 Natural  2 Accident  3 Suicide  4 Homicide  5 Pending Investigation

12. 40 years old male was admitted to the hospital with H/O pain in abdomen & vomiting since 1 day. He was chronic alcoholic. He was found to be dehydrated & in shock. Patient was investigated & diagnosed as a case of perforation peritonitis. He was resuscitated & operated on the second day of admission. Laparotomy revealed perforated gastric ulcer with peritonitis. He developed pneumonia on third operative day and remained critical. Patient died on 4th postoperative day.

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Immediate cause</td>
<td>(a) ----------------------------------------</td>
<td>Due to (or as a consequences of)</td>
</tr>
<tr>
<td>State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antecedent cause</td>
<td>(b) ----------------------------------------</td>
<td>Due to (or as a consequences of)</td>
</tr>
<tr>
<td>Morbid conditions, if any, giving rise to the above Cause, stating underlying condition last</td>
<td></td>
<td></td>
</tr>
<tr>
<td>II Other significant conditions contributing to the death but not related to the disease or conditions causing it</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Manner of Death –
1 Natural  2 Accident  3 Suicide  4 Homicide  5 Pending Investigation
13. 10 years old female brought to the hospital with fever and convulsions since 2
days. O/E she had high degree fever, neck rigidity and exaggerated deep
reflexes and she was unconscious. She had H/O chronic suppurative otitis
media since 1 year. Inspite of vigorous treatment she died due to pyogenic
meningitis 4 days after admission.

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Immediate cause</td>
<td>(a) -----------------------------------------</td>
<td>Due to (or as a consequences of)</td>
</tr>
</tbody>
</table>
| State the disease, injury or complication which caused death, not the mode of
dying such as heart failure, asthema, etc. | | |
| Antecedent cause | (b) ----------------------------------------- | Due to (or as a consequences of) |
| Morbid conditions, if any, giving rise to the above Cause, stating underlying
condition last | | |
| II Other significant conditions contributing to the death but not related to the disease or conditions causing it | | |

Manner of Death

---

14. 32 years male, resident of a remote village admitted to the district hospital on
13.10.2001 at 4 am with history of snake bite to his right foot at 11 pm on
12.10.2001. Patient had cellulitis with bleeding from the site of bite. Patient
was semiconscious and had facial oedema, pulse & BP were not recordable
showing signs of hypovolumic shock. Immediately he was transferred to ICU
from the casualty. Patient was put on anti-snake venom and corticosteroids
along with I/V fluids. Blood was sent for grouping and cross matching. B.T.,
C.T. and P.T. were done. B.T., C.T. were prolonged. The patient could not
revived even after vigorous management of 1 hour and declared dead at
5 am.

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Immediate cause</td>
<td>(a) -----------------------------------------</td>
<td>Due to (or as a consequences of)</td>
</tr>
</tbody>
</table>
| State the disease, injury or complication which caused death, not the mode of
dying such as heart failure, asthema, etc. | | |
| Antecedent cause | (b) ----------------------------------------- | Due to (or as a consequences of) |
| Morbid conditions, if any, giving rise to the above Cause, stating underlying
condition last | | |
| II Other significant conditions contributing to the death but not related to the disease or conditions causing it | | |

Manner of Death
15. 20 years old male admitted in the hospital with C/O nausea, vomiting, low grade fever and loss of appetite since 15 days. Patient had yellow discoloration of eyes, high colored urine since 10 days and altered behaviour since 1 day. He was diagnosed as a case of viral hepatitis. On investigation patient had raised serum bilirubin (21mg %) with raised SGPT, SGOT levels. Patient died 3 days after admission.

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Immediate cause</td>
<td>(a) ______________________________</td>
<td>Due to (or as a consequences of)</td>
</tr>
<tr>
<td>State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</td>
<td>(b) ______________________________</td>
<td>Due to (or as a consequences of)</td>
</tr>
<tr>
<td>Antecedent cause</td>
<td>(c) ______________________________</td>
<td></td>
</tr>
<tr>
<td>Morbid conditions, if any, giving rise to the above Cause, stating underlying condition last</td>
<td></td>
<td></td>
</tr>
<tr>
<td>II Other significant conditions contributing to the death but not related to the disease or conditions causing it</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Manner of Death –**
1 Natural  2 Accident  3 Suicide  4 Homicide  5 Pending Investigation

16. 2 years old female child was brought to the hospital with fever cough, coryza since last 8 days history of rash on body since 5 days. O/E child had severe breathlessness, high degree fever, bilateral crepitations. Child was cachexic and irritable. She was diagnosed as a case of bronchopneumonia with grade III malnutrition. Child was not vaccinated against measles. Inspite of treatment child died after 3 days.

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Immediate cause</td>
<td>(a) ______________________________</td>
<td>Due to (or as a consequences of)</td>
</tr>
<tr>
<td>State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</td>
<td>(b) ______________________________</td>
<td>Due to (or as a consequences of)</td>
</tr>
<tr>
<td>Antecedent cause</td>
<td>(c) ______________________________</td>
<td></td>
</tr>
<tr>
<td>Morbid conditions, if any, giving rise to the above Cause, stating underlying condition last</td>
<td></td>
<td></td>
</tr>
<tr>
<td>II Other significant conditions contributing to the death but not related to the disease or conditions causing it</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Manner of Death –**
1 Natural  2 Accident  3 Suicide  4 Homicide  5 Pending Investigation
17. 27 years old male was admitted in a hospital in an unconscious state with H/o convulsions since 5 hours. Patient was detected as HIV positive 4 years back. He was taking treatment for pulmonary tuberculosis since 8 months. After admission his CSF revealed tubercular meningitis. Patient had not responded to anti-tubercular line of treatment and died after 3 days.

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediate cause</td>
<td>(a) ---------------------------------</td>
<td>Due to (or as a consequences of)</td>
</tr>
<tr>
<td>Antecedent cause</td>
<td>(b) ---------------------------------</td>
<td>Due to (or as a consequences of)</td>
</tr>
<tr>
<td>Other significant conditions contributing</td>
<td>(c) ---------------------------------</td>
<td></td>
</tr>
</tbody>
</table>

Manner of Death –

1 Natural  2 Accident  3 Suicide  4 Homicide  5 Pending Investigation

18. 3 years old mentally retarded male child was admitted for burns in hospital for 80% burns. He had history of fall in a domestic fireplace (Chool). Child was in hypovolumic shock and resuscitated but died after 6 hours due to shock due to burns.

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediate cause</td>
<td>(a) ---------------------------------</td>
<td>Due to (or as a consequences of)</td>
</tr>
<tr>
<td>Antecedent cause</td>
<td>(b) ---------------------------------</td>
<td>Due to (or as a consequences of)</td>
</tr>
<tr>
<td>Other significant conditions contributing</td>
<td>(c) ---------------------------------</td>
<td></td>
</tr>
</tbody>
</table>

Manner of Death –

1 Natural  2 Accident  3 Suicide  4 Homicide  5 Pending Investigation
19. 65 years old male patient was known diabetic since 8 years, met with vehicular accident (dashed by a motor cycle) and had fracture neck femur. Patient was immediately admitted to the hospital. Investigation revealed BSL level 550 mg/dl and opinion of a physician about the fitness was asked. Suddenly patient deteriorated with signs of dyspnoea, tachycardia, & tachypnea and died after 2 hours. A clinical autopsy revealed pulmonary embolism.

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
<th>Interval between onset &amp; death approx.</th>
<th>ICD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Immediate cause</td>
<td>(a) ------------------------------------------- Due to (or as a consequences of)</td>
<td></td>
</tr>
<tr>
<td>State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antecedent cause</td>
<td>(b) ------------------------------------------- Due to (or as a consequences of)</td>
<td></td>
</tr>
<tr>
<td>Morbid conditions, if any, giving rise to the above Cause, stating underlying condition last</td>
<td></td>
<td></td>
</tr>
<tr>
<td>II Other significant conditions contributing to the death but not related to the disease or conditions causing it</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Manner of Death**

<table>
<thead>
<tr>
<th>How did the injury occur?</th>
</tr>
</thead>
</table>

20. 38 years old male was admitted to the hospital for high degree fever since 4 days and convulsions since 4 hours before admission. Patient had altered sensorium. On investigations his peripheral blood smear showed *Plasmodium Falciparum* and haemogram was suggestive of severe anaemia (Hb-6 gm%). Patient was chronic alcoholic. Patient died 1 day after admission.

<table>
<thead>
<tr>
<th>CAUSE OF DEATH</th>
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<tr>
<td>II Other significant conditions contributing to the death but not related to the disease or conditions causing it</td>
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</tbody>
</table>

**Manner of Death**

<table>
<thead>
<tr>
<th>How did the injury occur?</th>
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</thead>
</table>
21. 4 days old pre-term male child had cleft lip and cleft palate along with hypoplasia of genitalia and with multiple congenital anomalies. Baby became sudden breathless and cyanosed after feeding suggestive of aspiration pneumonia. Child died after 4 hours.

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</table>

Manner of Death –
1 Natural  2 Accident  3 Suicide  4 Homicide  5 Pending Investigation

22. 62 years old male was brought to hospital with breathlessness, cough & weakness on Lt. Side of body for about 2-3 hours. He was taking treatment for hypertension for last 8 years. On admission he was dyspnoec. Had hemiparesis on Lt side. But the neurological picture started deteriorating rapidly within 2 hours he became unconscious. His pupils became pinpoint and he developed neck stiffness. Fundoscopy revealed papilloedema. Pt died 12 hours after admission.

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</table>

Manner of Death –
1 Natural  2 Accident  3 Suicide  4 Homicide  5 Pending Investigation
23. 14 years male was admitted to a hospital on 12.09.2001 with breathlessness, cough, fever, joint pain and pedal oedema. Pulse was 120/min, BP 130/60 mm of Hg. O/E swelling of elbow, wrist and small joints seen along with pansystolic murmur. Investigations also revealed mitral regurgitation + aortic regurgitation+ aortic stenosis and left ventricular hypertrophy along with pulmonary hypertension. Patient was alright 6 years back then started joint pain off and on which was migratory in nature since 3 years. Patient started complaining dyspnoea on exertion, which was increased since 10 days. Patient was diagnosed as rheumatic valvular heart disease with pulmonary hypertension with CCF. Patient died on 21.09.2001.

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Manner of Death –
1 Natural  2 Accident  3 Suicide 4 Homicide 5 Pending Investigation

24. 7 years old male child referred from remote village to the district hospital with H/O vomiting & loose motions since 2 days. O/E patient had severe dehydration and was in hypovolumic shock. Immediately he was treated vigorously with IV fluids and antibacterial agents & stool sample was sent for pathology. But he was not revived because of irreversible shock and died due to gastroenteritis on 3rd day of admission.

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Manner of Death –
1 Natural  2 Accident  3 Suicide 4 Homicide 5 Pending Investigation
25. 70 years old male was admitted to the hospital with swelling of Lt. foot. He was known diabetic since 15 years. He had H/O injury to his Lt. foot 10 days back. O/E patient was febrile and showing severe cellulitis of Lt. foot along with gangrene. Investigations showed hyperglycemia. Immediately he was treated with insulin and antibiotics. Patient worsened on 7 day of admission and died due to septicaemic shock.

<table>
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</table>

**Manner of Death** –

1 Natural  2 Accident  3 Suicide  4 Homicide  5 Pending Investigation
ANNEXURE- I

CASE DEFINITION OF AIDS
(ABOVE 12 YEARS OF AGE)

1. Two positive tests for HIV infection (by ERS test)
   AND

2. Any one of the following criteria -

   a) Significant weight loss (> 10% of body weight) within last one month/Cachexia
      (not known to be due to be a condition other than HIV infection)
   b) Chronic diarrhoea (intermittent or continuous)
   c) Prolonged fever (intermittent or continuous)
   d) Tuberculosis - Extensive pulmonary tuberculosis, disseminated, miliary, extra-
      pulmonary
   e) Neurological impairment preventing independent daily activities, not known to
      be due to the conditions unrelated to HIV infection (e. g. trauma)
   f) Candidiasis of the oesophagus (diagnosable by oral candidiasis with
      odynophagia)
   g) Clinically diagnosed life-threatening or recurrent episodes of pneumonia, with
      or without aetiological confirmation
   h) Kaposi’s Sarcoma
   i) Other conditions
      • Cryptococcal meningitis
      • Neuro Toxoplasmosis
      • Penicillium marneffei
      • CMV retinitis
      • Recurrent Herpes Zoster and Multi-dermatomal
      • Disseminated molluscum
CASE DEFINITION OF AIDS FOR CHILDREN  
(UPTO 12 YEARS OF AGE)

1. Two positive tests for HIV infection (by ERS) in children older than 18 months or confirmed maternal HIV infection for children < 18 months.  
   AND

2. Presence of at least two major and two minor signs of the following in the absence of known causes of immuno-suppression.

**MAJOR SIGNS:**

a) Loss of weight or failure to thrive, which is not known to be due to medical causes other than HIV infection  
b) Chronic diarrhoea (intermittent or continuous) > 1 month duration  
c) Prolonged fever (intermittent or continuous) > 1 month duration

**MINOR SIGNS:**

a) Repeated common infections (e.g. Pneumonitis, otitis media, pharyngitis etc.)  
b) Generalised lymphadenopathy  
c) Oropharyngeal candidiasis  
d) Persistent cough for more than 1 month  
e) Disseminated maculo-papular dermatosis
### 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** Obstetric tetanus
- **A35** Other tetanus
- **A36** Diptheria
- **A37** Whooping cough
- **A38** Scarlet fever
- **A39** Meningococcal infection
- **A40** Streptococcal septicemia
- **A41** Other septicemia
- **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) infections
- **A63** Other predominantly sexually transmitted diseases, not elsewhere classified.
- **A64** Unspecified sexually transmitted disease

#### Other spirochaetal diseases (A65-A69)
- **A65** Nonvenereal syphilis
A66  Yaws
A67  Pinta (carate)
A68  Relapsing fevers
A69  Other spirochaetal infections

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

Rickettsioses (A75-A79)
A75  Typhus fever
A77  Spotted fever (tick-borne rickettsioses)
A78  Q fever
A79  Other rickettsioses

Viral infections of the central nervous system (A80-A89)
A80  Acute poliomyelitis
A81  Slow 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) infection
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 phaeomyctic abscess
B44 Aspergillosis
B45 Cryptococcosis
B46 Zygomycosis
B47 Mycetoma
B48 Other mycoses, not elsewhere classified
B49 Unspecified mycosis

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

Helminthiases (B65-B83)
B65 Schistosomiasis (bilharziasis)
B66 Other fluke infections
B67 Echinococcosis
B68 Taeniasis
B69 Cysticercosis
B70 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 pyriform 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 neoplasm 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 neoplasm 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.
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 disease
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
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D02</td>
<td>Carcinoma in situ of middle ear and respiratory system</td>
</tr>
<tr>
<td>D03</td>
<td>Melanoma in situ</td>
</tr>
<tr>
<td>D04</td>
<td>Carcinoma in situ of skin</td>
</tr>
<tr>
<td>D05</td>
<td>Carcinoma in situ of breast</td>
</tr>
<tr>
<td>D06</td>
<td>Carcinoma in situ of cervix uteri</td>
</tr>
<tr>
<td>D07</td>
<td>Carcinoma in situ of other and unspecified genital organs</td>
</tr>
<tr>
<td>D09</td>
<td>Carcinoma in situ of other and unspecified sites</td>
</tr>
</tbody>
</table>

**Benign neoplasms (D10-D36)**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>D10</td>
<td>Benign neoplasm of mouth and pharynx</td>
</tr>
<tr>
<td>D11</td>
<td>Benign neoplasm of major salivary glands</td>
</tr>
<tr>
<td>D12</td>
<td>Benign neoplasm of colon, rectum, anus and anal canal</td>
</tr>
<tr>
<td>D13</td>
<td>Benign neoplasm of other and ill-defined parts of digestive system</td>
</tr>
<tr>
<td>D14</td>
<td>Benign neoplasm of middle ear and respiratory system</td>
</tr>
<tr>
<td>D15</td>
<td>Benign neoplasm of other and unspecified intrathoracic organs</td>
</tr>
<tr>
<td>D16</td>
<td>Benign neoplasm of bone and articular cartilage</td>
</tr>
<tr>
<td>D17</td>
<td>Benign lipomatous neoplasm</td>
</tr>
<tr>
<td>D18</td>
<td>Haemangioma and lymphangioma, any site</td>
</tr>
<tr>
<td>D19</td>
<td>Benign neoplasms of mesothelial tissue</td>
</tr>
<tr>
<td>D20</td>
<td>Benign neoplasms of soft tissue of retroperitoneum and peritoneum</td>
</tr>
<tr>
<td>D21</td>
<td>Other benign neoplasms of connective and other soft tissue</td>
</tr>
<tr>
<td>D22</td>
<td>Melanocytic naevi</td>
</tr>
<tr>
<td>D23</td>
<td>Other benign neoplasms of skin</td>
</tr>
<tr>
<td>D24</td>
<td>Benign neoplasm of breast</td>
</tr>
<tr>
<td>D25</td>
<td>Leiomyoma of uterus</td>
</tr>
<tr>
<td>D26</td>
<td>Other benign neoplasms of uterus</td>
</tr>
<tr>
<td>D27</td>
<td>Benign neoplasm of ovary</td>
</tr>
<tr>
<td>D28</td>
<td>Benign neoplasm of other and unspecified female genital organs</td>
</tr>
<tr>
<td>D29</td>
<td>Benign neoplasm of male genital organs</td>
</tr>
<tr>
<td>D30</td>
<td>Benign neoplasm urinary organs</td>
</tr>
<tr>
<td>D31</td>
<td>Benign neoplasm of eye and adnexa</td>
</tr>
<tr>
<td>D32</td>
<td>Benign neoplasm of meninges</td>
</tr>
<tr>
<td>D33</td>
<td>Benign neoplasm of brain and other parts of central nervous system</td>
</tr>
<tr>
<td>D34</td>
<td>Benign neoplasm of thyroid gland</td>
</tr>
<tr>
<td>D35</td>
<td>Benign neoplasm of other and unspecified endocrine glands</td>
</tr>
<tr>
<td>D36</td>
<td>Benign neoplasm of other and unspecified sites</td>
</tr>
</tbody>
</table>

**Neoplasms of uncertain or unknown behaviour (D37-D48)**

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

**Chapter III**

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

**Nutritional anaemia (D50-D53)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D50</td>
<td>Iron deficiency anaemia</td>
</tr>
<tr>
<td>D51</td>
<td>Vitamin B&lt;sub&gt;12&lt;/sub&gt; deficiency anaemia</td>
</tr>
<tr>
<td>D52</td>
<td>Folate deficiency anaemias</td>
</tr>
<tr>
<td>D53</td>
<td>Other nutritional anaemia</td>
</tr>
</tbody>
</table>

**Haemolytic anaemias (D55-D59)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D55</td>
<td>Anaemia due to enzyme disorders</td>
</tr>
<tr>
<td>D56</td>
<td>Thalassaemia</td>
</tr>
<tr>
<td>D57</td>
<td>Sickle-cell disorders</td>
</tr>
<tr>
<td>D58</td>
<td>Other hereditary haemolytic anaemias</td>
</tr>
</tbody>
</table>
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  Methaemoglobinemia
D75  Other diseases of blood and blood-forming organs
D76  Certain diseases involving lymphoreticular tissue and reticuloendothelial 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 Disorder of aromatic amino-acid metabolism
E71 Disorders of branched-chain amino-acid metabolism and fatty-acid metabolism
E72 Other disorders of amino-acid metabolism
E73 Lactose intolerance
E74 Other disorders of carbohydrate metabolism
E75 Disorder of sphingolipid metabolism and other lipid storage disorders
E76 Disorder of glycosaminoglycan metabolism
E77 Disorders of glycoprotein metabolism
E78 Disorders of lipoprotein metabolism and other lipidaemias
E79 Disorders of purine and pyrimidine metabolism
E80 Disorders of porphyrin and bilirubin metabolism
E83 Disorders of mineral metabolism
E84 Cystic fibrosis
E85 Amyloidosis
E86 Volume depletion
E87 Other disorders of fluid, electrolyte and acid-base balance
E88 Other metabolic disorders
E89 Postprocedural endocrine and metabolic disorders, not elsewhere classified
E90 Nutritional and metabolic disorders in diseases classified elsewhere

Chapter V
Mental and behavioural disorders
(F00-F99)

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

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, delusional disorders (F20-F29)
F20  Schizophrenia
F21  Schizotypal disorder
F22  Persistant 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) disorders

Neurotic, stress-related and somatoform disorders (F40-F48)
F40  Phobic anxiety disorders
F41  Other anxiety disorders
F42  Obsessive-compulsive disorders
F43  Reaction to serve 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)
**Disorders of psychological development (F80-F89)**
- **F80** Specific developmental disorders of speech and language
- **F81** Specific developmental disorders of scholastic skills
- **F82** Specific developmental disorders of motor function
- **F83** Mixed specific developmental disorders
- **F84** Pervasive developmental disorders
- **F88** Other disorders of psychological development
- **F89** Unspecified disorders of psychological development

**Behavioural and emotional disorders with onset usual 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 disorders (F99)**
- **F99** Mental disorder, not otherwise specified

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**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 diseases
- **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-F32)**
- **G30** Alzheimer’s disease
- **G31** Other degenerative disease 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 disorder
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 diseases 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 in diseases not elsewhere classified
G99 Other disorders of nervous system in diseases classified elsewhere

Chapter VII
Diseases of the eye and adnexa (H00-H59)

Disorders of eyelid, lacrimal system and orbit (H00-H06)
H00 Hordeolum and chalazion
H01 Other inflammation of eyelid
H02 Other disorders of eyelid
H03 Disorders of eyelid in diseases classified elsewhere
H04 Disorders of lacrimal system
H05 Disorders of orbit
H06 Disorders of lacrimal system and orbit in diseases classified elsewhere
### Disorders of conjunctiva (H10-H13)
- **H10** Conjunctivitis
- **H11** Other disorders of conjunctiva
- **H13** Disorders of conjunctiva in diseases classified elsewhere

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

### Disorders of lens (H25-H28)
- **H25** Senile cataract
- **H26** Other cataract
- **H27** Other disorders of lens
- **H28** Cataract and other disorders of lens in diseases classified elsewhere

### Disorders of choroid and retina (H30-H36)
- **H30** Chorioretinal inflammation
- **H31** Other disorders of choroid
- **H32** Chorioretinal disorders in diseases classified elsewhere
- **H33** Retinal detachments and breaks
- **H34** Retinal vascular occlusions
- **H35** Other retinal disorders
- **H36** Retinal disorders in diseases classified elsewhere

### Glaucoma (H40-H42)
- **H40** Glaucoma
- **H42** Glaucoma in diseases classified elsewhere

### Disorders of vitreous body and globe (H43-H45)
- **H43** Disorders of vitreous body
- **H44** Disorders of globe
- **H45** Disorders of vitreous body and globe in diseases classified elsewhere

### Disorders of optic nerve and visual pathways (H46-H48)
- **H46** Optic neuritis
- **H47** Other disorders of optic (2nd) nerve and visual pathways
- **H48** Disorders of optic (2nd) nerve and visual pathways in diseases classified elsewhere

### Disorders of ocular muscles, binocular movement, accommodation and refraction (H49-H52)
- **H49** Paralytic strabismus
- **H50** Other strabismus
- **H51** Other disorders of binocular movement
- **H52** Disorders of refraction and accommodation

### Visual disturbances and blindness (H53-H54)
- **H53** Visual disturbances
- **H54** Blindness and low vision

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

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

### Diseases of external ear (H60-H62)
- **H60** Otitis externa
- **H61** Other disorders of external ear
- **H62** Disorders of external ear in diseases classified elsewhere
Diseases of middle ear and mastoid (H65-H75)
H65 Nonsuppurative otitis media
H66 Suppurative and unspecified otitis media
H67 Otitis media in diseases classified elsewhere
H68 Eustachian salpingitis and obstruction
H69 Other disorders of Eustachian tube
H70 Mastoiditis and related conditions
H71 Cholesteatoma of middle ear
H72 Perforation of tympanic membrane
H73 Other disorders of tympanic membrane
H74 Other disorders of middle ear and mastoid
H75 Other disorders of middle ear and mastoid in diseases classified elsewhere

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

Other disorders of ear (H90-H95)
H90 Conductive and sensorineural hearing loss
H91 Other hearing loss
H92 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

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

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 condition

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 disease of gallbladder
K83  Other diseases of biliary tract
K85  Acute pancreatitis
K86  Other diseases of pancreas
K87  Disorders of gallbladder, biliary tract and pancreas in diseases classified elsewhere

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

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

Infections of the skin and subcutaneous tissue (L00-L08)
L00  Staphylococcal scalded skin syndrome
L01  Impetigo
L02  Cutaneous abscess, furuncle and carbuncle

L03  Cellulitis
L04  Acute lymphadenitis
L05  Pilonidal cyst
L08  Other local infections of skin and subcutaneous tissue

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

Dermatitis and eczema (L20-L30)
L20  Atopic dermatitis
L21  Seborrhoeic dermatitis
L22  Diaper (napkin) dermatitis
L23  Allergic contact dermatitis
L24  Irritant contact dermatitis
L25  Unspecified contact dermatitis
L26  Exfoliative dermatitis
L27  Dermatitis due to substances taken internally
L28  Lichen simplex chronicus and prurigo
L29  Pruritus
L30  Other dermatitis

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

Urticaria and erythema (L50-L54)
L50  Urticaria
L51  Erythema multiforme
L52  Erythema nodosum
L53 Other erythematous conditions
L54 Erythema in diseases classified elsewhere

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

Disorders of skin appendages (L60-L75)
L60 Nail disorders
L62 Nail disorders in diseases classified elsewhere
L63 Alopecia areata
L64 Androgenic alopecia
L65 Other nonscarring hair loss
L66 Cicatricial alopecia (scarring hair loss)
L67 Hair colour and hair shaft abnormalities
L68 Hypertrichosis
L70 Acne
L71 Rosacea
L72 Follicular cysts of skin ans 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 Seborrheic keratosis
L83 Acanthosis nigricans
L84 Corns and callosities
L85 Other epidermal thickening
L86 Keratoderma in diseases classified elsewhere
L87 Transepidermal elimination disorders
L88 Pyoderma gangrenosum
L89 Decubitus ulcer
L90 Atrophic disorders of skin
L91 Hypertrophic disorders of skin
L92 Granulomatous disorders of skin and subcutaneous tissue
L93 Lupus erythematosus
L94 Other localized connective tissue disorders
L95 Vasculitis limited to skin, not elsewhere classified
L97 Ulcer of lower limb, not elsewhere classified
L98 Other disorders of skin and subcutaneous tissue, not elsewhere classified
L99 Other disorders of skin and subcutaneous tissue in diseases classified elsewhere

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

Arthropathies (M00-M25)

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

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

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

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

Systemic connective tissue disorders (M30-M36)
M30  Polyarteritis nodosa and related conditions
M31  Other necrotizing vasculopathies
M32  Systemic lupus erythematosus
M33  Dermatopolymyositis
M34  Systemic sclerosis
M35  Other systemic involvement of connective tissue
M36  Systemic disorders of connective tissue in diseases classified elsewhere

Dorsopathies (M40-M54)
Deforming dorsopathies (M40-M43)
M40  Kyphosis and lordosis
M41  Scoliosis
M42  Spinal osteochondrosis
M43  Other deforming dorsopathies

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

Other dorsopathies (M50-M54)
M50  Cervical disc disorders
M51  Other intervertebral disc disorders
M52  Other dorsopathies, not elsewhere classified
M54  Dorsalgia

Soft tissue disorders (M60-M79)
Disorders of muscles (M60-M63)
M60  Myositis
M61  Calcification and ossification of muscle
M62  Other disorders of muscle
M63  Disorders of muscle in diseases classified elsewhere

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

Other soft tissue disorders (M70-M79)
M70  Soft tissue disorders related to use, overuse and pressure
M71  Other bursopathies
M72  Fibroblastic disorders
M73  Soft tissue disorders in diseases classified elsewhere
M75  Shoulder lesions
M76  Enthesopathies of lower limb, excluding foot
M77  Other enthesopathies
M79  Other soft tissue disorders, not elsewhere classified
Osteopathies and chondropathies (M80-M94)
Disorders of bone density and structure (M80-M85)

M80  Osteoporosis with pathological fracture
M81  Osteoporosis without pathological fracture
M82  Osteoporosis in diseases classified elsewhere
M83  Adult osteomalacia
M84  Disorders of continuity of bone
M85  Other disorders of bone density and structure

Other osteopathies (M86-M90)
M86  Osteomyelitis
M87  Osteonecrosis
M88  Paget’s disease of bone (osteitis deformans)
M89  Other disorders of bone
M90  Osteopathies in diseases classified elsewhere

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

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

CHAPTER XIV

Diseases of the genitourinary system (N00-N99)

Glomerular diseases (N00-N08)

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

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

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 the 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  Vaginal ulceration and inflammation in diseases classified elsewhere

Noninflammatory disorders of female genital tract (N80-N98)
N80  Endometrosis
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
Other obstetric trauma  
Postpartum haemorrhage  
Retained placenta and membranes, without haemorrhage  
Complications of anaesthesia during labour and delivery  
Other complications of labour and delivery, not elsewhere classified  

Delivery (O80-O84)  
Single spontaneous delivery  
Single delivery by forceps and vacuum extractor  
Single delivery by caesarean section  
Other assisted single delivery  
Multiple delivery  

Complications predominantly related to the puerperium (O85-O92)  
Puerperal sepsis  
Other puerperal infections  
Venous complications in the puerperium  
Obstetric embolism  
Complications of anaesthesia during the puerperium  
Complications of the puerperium, not elsewhere classified  
Infection of breast associated with childbirth  
Other disorders of breast and lactation associated with childbirth  

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

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

Birth trauma (P10-P15)  
Intracranial laceration and haemorrhage due to birth injury  
Birth injury to scalp  
Birth injury to skeleton  
Birth injury to peripheral nervous system  
Other birth injuries  

Respiratory and cardiovascular disorders specific to the perinatal period (P20-P29)  
Intrauterine hypoxia  
Birth asphyxia  
Respiratory distress of newborn  
Congenital pneumonia  
Neonatal aspiration syndromes  
Interstitial emphysema and related conditions originating in the perinatal period  
Pulmonary haemorrhage originating in the perinatal period  
Chronic respiratory disease originating in the perinatal period  

Chapter XVI  

Certain conditions originating in the perinatal period (P00-P96)
Other respiratory conditions originating in the perinatal period
Cardiovascular disorders originating in the perinatal period
Infections specific to the perinatal period (P35-P39)
Congenital viral diseases
Bacterial sepsis of newborn
Other congenital infectious and parasitic diseases
Omphalitis of newborn with or without mild haemorrhage
Other infections specific to the perinatal period
Haemorrhagic and haemoatological disorders of fetus and newborn (P50-P61)
Fetal blood loss
Umbilical haemorrhage of newborn
Intracranial nontraumatic haemorrhage of fetus and newborn
Haemorrhagic disease of fetus and newborn
Other neonatal haemorrhages
Haemolytic disease of fetus and newborn
Hydrops fetalis due to haemolytic disease
Kernicterus
Neonatal jaundice due to other excessive haemolysis
Neonatal jaundice from other and unspecified causes
Disseminated intravascular coagulation of fetus and newborn
Other perinatal haematological disorders
Transitory endocrine and metabolic disorders specific to fetus and newborn (P70-P74)
Transitory disorders of carbohydrate metabolism specific to fetus and newborn
Transitory neonatal disorders of calcium and magnesium metabolism
Other transitory neonatal endocrine disorders
Other transitory neonatal electrolyte and metabolic disturbances
Digestive system disorders of fetus and newborn (P75-P78)
Meconium ileus
Other intestinal obstruction of newborn
Necrotizing enterocolitis of fetus and newborn
Other perinatal digestive system disorders
Conditions involving the integument and temperature regulation of fetus and newborn (P80-P83)
Hypothermia of newborn
Other disturbances of temperature regulation of newborn
Other conditions of integument specific to fetus and newborn
Other disorders originating in the perinatal period (P90-P96)
Convulsions of newborn
Other disturbances of cerebral status of newborn
Feeding problems of newborn
Reactions and intoxications due to drugs administered to fetus and newborn
Disorders of muscle tone of newborn
Fetal death of unspecified cause
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)
Anencephaly and similar malformation
Encephalocele
Microcephaly
Congenital hydrocephalus
Other congenital malformations of brain
Spina bifida
Other congenital malformations of spinal cord
Other congenital malformations of nervous system
Congenital malformations of eye, ear, face and neck (Q10-Q18)
Congenital malformations of eyelid, lacrimal apparatus and orbit
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 valve
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 of 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 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 system
Q89 Other congenital malformations, not elsewhere classified

Chromosomal abnormalities, not elsewhere classified (Q90-Q99)
Q90 Down’s syndrome
Q91 Edwards’ syndrome and Patau’s syndrome
Q92 Other trisomies and partial trisomies of the autosomes, not elsewhere classified
Q93 Monosomies and deletions form 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 system

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 Flatulences 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
R28  Other symptoms and signs involving the nervous and musculoskeletal system
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
R37  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  Unknown and unspecified causes of morbidity

Abnormal findings of 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 of examination of urine, without diagnosis (R80-R82)
- R80 Isolated proteinuria
- R81 Glycosuria
- R82 Other abnormal findings in urine

Abnormal findings of 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)

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

### Injuries to the Shoulder and Upper Arm (S40-S49)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S40</td>
<td>Superficial injury of shoulder and upper arm</td>
</tr>
<tr>
<td>S41</td>
<td>Open wound of shoulder and upper arm</td>
</tr>
<tr>
<td>S42</td>
<td>Fracture of shoulder and upper arm</td>
</tr>
<tr>
<td>S43</td>
<td>Dislocation, sprain and strain of joints and ligaments of shoulder girdle</td>
</tr>
<tr>
<td>S44</td>
<td>Injury of nerves at shoulder and upper arm level</td>
</tr>
<tr>
<td>S45</td>
<td>Injury of blood vessels at shoulder and upper arm level</td>
</tr>
<tr>
<td>S46</td>
<td>Injury of muscle and tendon at shoulder and upper arm level</td>
</tr>
<tr>
<td>S47</td>
<td>Crushing injury of shoulder and upper arm</td>
</tr>
<tr>
<td>S48</td>
<td>Traumatic amputation of shoulder and upper arm</td>
</tr>
<tr>
<td>S49</td>
<td>Other unspecified injuries of shoulder and upper arm</td>
</tr>
</tbody>
</table>

### Injuries to the Wrist and Hand (S50-S59)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S50</td>
<td>Superficial injury of forearm</td>
</tr>
<tr>
<td>S51</td>
<td>Open wound of forearm</td>
</tr>
<tr>
<td>S52</td>
<td>Fracture of forearm</td>
</tr>
<tr>
<td>S53</td>
<td>Dislocation, sprain and strain of joints and ligaments of elbow</td>
</tr>
<tr>
<td>S54</td>
<td>Injury of nerves at forearm level</td>
</tr>
<tr>
<td>S55</td>
<td>Injury of blood vessels at forearm level</td>
</tr>
<tr>
<td>S56</td>
<td>Injury of muscle and tendon at forearm level</td>
</tr>
<tr>
<td>S57</td>
<td>Crushing injury of forearm</td>
</tr>
<tr>
<td>S58</td>
<td>Traumatic amputation of forearm</td>
</tr>
<tr>
<td>S59</td>
<td>Other and unspecified injuries of forearm</td>
</tr>
</tbody>
</table>

### Injuries to the Hip and Thigh (S60-S69)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S60</td>
<td>Superficial injury of hip and thigh</td>
</tr>
<tr>
<td>S61</td>
<td>Open wound of hip and thigh</td>
</tr>
<tr>
<td>S62</td>
<td>Fracture of femur</td>
</tr>
<tr>
<td>S63</td>
<td>Dislocation, sprain and strain of joint and ligaments of hip</td>
</tr>
<tr>
<td>S64</td>
<td>Injury of nerves at hip and thigh level</td>
</tr>
<tr>
<td>S65</td>
<td>Injury of blood vessels at hip and thigh level</td>
</tr>
<tr>
<td>S66</td>
<td>Injury of muscle and tendon at hip and thigh level</td>
</tr>
<tr>
<td>S67</td>
<td>Crushing injury of hip and thigh</td>
</tr>
<tr>
<td>S68</td>
<td>Traumatic amputation of hip and thigh</td>
</tr>
<tr>
<td>S69</td>
<td>Other and unspecified injuries of hip and thigh</td>
</tr>
</tbody>
</table>

### Injuries to the Knee and Lower Leg (S70-S79)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S70</td>
<td>Superficial injury of hip and thigh</td>
</tr>
<tr>
<td>S71</td>
<td>Open wound of hip and thigh</td>
</tr>
<tr>
<td>S72</td>
<td>Fracture of femur</td>
</tr>
<tr>
<td>S73</td>
<td>Dislocation, sprain and strain of joint and ligaments of hip</td>
</tr>
<tr>
<td>S74</td>
<td>Injury of nerves at hip and thigh level</td>
</tr>
<tr>
<td>S75</td>
<td>Injury of blood vessels at hip and thigh level</td>
</tr>
<tr>
<td>S76</td>
<td>Injury of muscle and tendon at hip and thigh level</td>
</tr>
<tr>
<td>S77</td>
<td>Crushing injury of hip and thigh</td>
</tr>
<tr>
<td>S78</td>
<td>Traumatic amputation of hip and thigh</td>
</tr>
<tr>
<td>S79</td>
<td>Other and unspecified injuries of hip and thigh</td>
</tr>
</tbody>
</table>

### Injuries to the Elbow and Forearm (S80-S89)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S80</td>
<td>Superficial injury of lower leg</td>
</tr>
<tr>
<td>S81</td>
<td>Open wound of lower leg</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>S82</td>
<td>Fracture of lower leg, including ankle</td>
</tr>
<tr>
<td>S83</td>
<td>Dislocation, sprain and strain of joints and ligaments of knee</td>
</tr>
<tr>
<td>S84</td>
<td>Injury of nerves at lower leg level</td>
</tr>
<tr>
<td>S85</td>
<td>Injury of blood vessels at lower leg level</td>
</tr>
<tr>
<td>S86</td>
<td>Injury of muscle and tendon at lower leg level</td>
</tr>
<tr>
<td>S87</td>
<td>Crushing injury of lower leg</td>
</tr>
<tr>
<td>S88</td>
<td>Traumatic amputation of lower leg</td>
</tr>
<tr>
<td>S89</td>
<td>Other and unspecified injuries of lower leg</td>
</tr>
</tbody>
</table>

**Injuries to the ankle and foot (S90-S99)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S90</td>
<td>Superficial injury of ankle and foot</td>
</tr>
<tr>
<td>S91</td>
<td>Open wound of ankle and foot</td>
</tr>
<tr>
<td>S92</td>
<td>Fracture of foot, except ankle</td>
</tr>
<tr>
<td>S93</td>
<td>Dislocation, sprain and strain of joints and ligaments at ankle and foot level</td>
</tr>
<tr>
<td>S94</td>
<td>Injury of nerves at ankle and foot level</td>
</tr>
<tr>
<td>S95</td>
<td>Injury of blood vessels at ankle and foot level</td>
</tr>
<tr>
<td>S96</td>
<td>Injury of muscle and tendon at ankle and foot level</td>
</tr>
<tr>
<td>S97</td>
<td>Crushing injury of ankle and foot</td>
</tr>
<tr>
<td>S98</td>
<td>Traumatic amputation of ankle and foot</td>
</tr>
<tr>
<td>S99</td>
<td>Other and unspecified injuries of ankle and foot</td>
</tr>
</tbody>
</table>

**Injuries involving multiple body regions (T00-T07)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T00</td>
<td>Superficial injuries involving multiple body region</td>
</tr>
<tr>
<td>T01</td>
<td>Open wounds involving multiple body regions</td>
</tr>
<tr>
<td>T02</td>
<td>Fractures involving multiple body regions</td>
</tr>
<tr>
<td>T03</td>
<td>Dislocations, sprains and strains involving multiple body regions</td>
</tr>
<tr>
<td>T04</td>
<td>Crushing injuries involving multiple body regions</td>
</tr>
<tr>
<td>T05</td>
<td>Traumatic amputations involving multiple body region</td>
</tr>
<tr>
<td>T06</td>
<td>Other injuries involving multiple body regions, not elsewhere classified</td>
</tr>
<tr>
<td>T07</td>
<td>Unspecified multiple injuries</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T08</td>
<td>Fracture of spine, level unspecified</td>
</tr>
<tr>
<td>T09</td>
<td>Other injuries of spine and trunk, level unspecified</td>
</tr>
<tr>
<td>T10</td>
<td>Fracture of upper limb, level unspecified</td>
</tr>
<tr>
<td>T11</td>
<td>Other injuries of upper limb, level unspecified</td>
</tr>
<tr>
<td>T12</td>
<td>Fracture of lower limb, level unspecified</td>
</tr>
<tr>
<td>T13</td>
<td>Other injuries of lower limb, level unspecified</td>
</tr>
<tr>
<td>T14</td>
<td>Injury of unspecified body region</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T15</td>
<td>Foreign body on external eye</td>
</tr>
<tr>
<td>T16</td>
<td>Foreign body in ear</td>
</tr>
<tr>
<td>T17</td>
<td>Foreign body in respiratory tract</td>
</tr>
<tr>
<td>T18</td>
<td>Foreign body in alimentary tract</td>
</tr>
<tr>
<td>T19</td>
<td>Foreign body in genitourinary tract</td>
</tr>
</tbody>
</table>

**Burns and corrosions (T20-T32)**

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T20</td>
<td>Burn and corrosion of head and neck</td>
</tr>
<tr>
<td>T21</td>
<td>Burn and corrosion of trunk</td>
</tr>
<tr>
<td>T22</td>
<td>Burn and corrosion of shoulder and upper limb, except wrist and hand</td>
</tr>
<tr>
<td>T23</td>
<td>Burn and corrosion of wrist and hand</td>
</tr>
<tr>
<td>T24</td>
<td>Burn and corrosion of hip and lower limb, except ankle and foot</td>
</tr>
<tr>
<td>T25</td>
<td>Burn and corrosion of ankle and foot</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T26</td>
<td>Burn and corrosion confined to eye and adnexa</td>
</tr>
<tr>
<td>T27</td>
<td>Burn and corrosion of respiratory tract</td>
</tr>
<tr>
<td>T28</td>
<td>Burn and corrosion of other internal organs</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T29</td>
<td>Burns and corrosions of multiple body regions</td>
</tr>
<tr>
<td>T30</td>
<td>Burn and corrosion, body region unspecified</td>
</tr>
<tr>
<td>T31</td>
<td>Burns classified according to extent of body surface involved</td>
</tr>
<tr>
<td>T32</td>
<td>Corrosions classified according to extent of body surface involved</td>
</tr>
</tbody>
</table>

**Frostbite (T33-T35)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T33</td>
<td>Superficial frostbite</td>
</tr>
</tbody>
</table>
Frostbite with tissue necrosis
Frostbite involving multiple body regions and unspecified frostbite
Poisoning by drugs, medicaments and biological substances (T36-T50)
Poisoning by systemic antibiotics
Poisoning by other systemic anti-infectives and antiparasitics
Poisoning by hormones and their synthetic substitutes and antagonists, not elsewhere classified
Poisoning by nonopioid analgesics, antipyretics and antirheumatics
Poisoning by narcotics and psychodysleptics (hallucinogens)
Poisoning by anaesthetics and therapeutic gases
Poisoning by antiepileptic, sedative-hypnotic and antiparkinsonism drugs
Poisoning by psychotropic drugs, not elsewhere classified
Poisoning by drugs primarily affecting the autonomic nervous system
Poisoning by primarily systemic and haematological agents, not elsewhere classified
Poisoning by agents primarily affecting the cardiovascular system
Poisoning by agents primarily affecting the gastrointestinal system
Poisoning by agents primarily affecting smooth and skeletal muscles and the respiratory system
Poisoning by topical agents primarily affecting skin and mucous membrane and by ophthalmological, otolaryngological 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 effect 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
Complications of other internal prosthetic devices, implants and grafts
T85

Failure and rejection of transplanted organs & tissues
T86

Complications peculiar to reattachment and amputation
T87

Other complications of surgical and medical care, not elsewhere classified
T88

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

Sequelae of injuries of head
T91

Sequelae of injuries of neck and trunk
T92

Sequelae of injuries of upper limb injury
T93

Sequelae of injuries of lower limb
T94

Sequelae of injuries involving multiple and unspecified body regions
T95

Sequelae of burns, corrosions and frostbite
T96

Sequelae of poisoning by drugs, medicaments and biological substances
T97

Sequelae of toxic effects of substances chiefly nonmedicinal as to source
T98

Sequelae of other and unspecified effects of external causes.

Chapter XX
External causes of morbidity and mortality (V01-Y99)

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 accidents
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 non motor 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 accident

Occupant of three wheeled motor vehicle injured in transport accident (V30-V39)
V30 Occupant of three wheeled motor vehicle injured in collision with pedestrian or animal
V31 Occupant of three wheeled motor vehicle injured in collision with pedal cycle
V32 Occupant of three wheeled motor vehicle injured in collision with two or three wheeled motor vehicle
V33 Occupant of three wheeled motor vehicle injured in collision with car pick-up truck or van
V34 Occupant of three wheeled motor vehicle injured in collision with heavy transport vehicle or bus
V35 Occupant of three wheeled motor vehicle injured in collision with railway train or railway vehicle
V36 Occupant of three wheeled motor vehicle injured in collision with nonmotor vehicle
V37 Occupant of three wheeled motor vehicle injured in collision with fixed or stationary object
V38 Occupant of three wheeled motor vehicle injured in noncollision transport accident
V39 Occupant of three wheeled motor vehicle injured in other and unspecified transport accident

Car occupant injured in transport accident (V40-49)
V40 Car occupant injured in collision with pedestrian or animal
V41 Car occupant injured in collision with pedal cycle
V42 Car occupant injured in collision with two or three-wheeled motor cycle
V43 Car occupant injured in collision with car, pick-up truck or van
V44 Car occupant injured in collision with heavy transport vehicle or bus
V45 Car occupant injured in collision with railway train or railway vehicle
V46 Car occupant injured in collision with other nonmotor vehicle
V47 Car occupant injured in collision with fixed or stationary object
V48 Car occupant injured in noncollision transport accident
V49 Car occupant injured in other and unspecified transport accidents

Occupant of pick-up truck or van injured in transport accident (V50-V59)
V50 Occupant of pick-up truck or van injured in collision with pedestrian or animal
V51 Occupant of pick-up truck or van injured in collision with pedal cycle
V52 Occupant of pick-up truck or van injured in collision with two or three-wheeled motor vehicle

V53 Occupant of pick-up truck or van injured in collision with car, pick-up truck or van
V54 Occupant of pick-up truck or van injured in collision with heavy transport vehicle or bus
V55 Occupant of pick-up truck or van injured in collision with railway train or railway vehicle
V56 Occupant of pick-up truck or van injured in collision with other nonmotor vehicle
V57 Occupant of pick-up truck or van injured in collision with fixed or stationary object
V58 Occupant of pick-up truck or van injured in noncollision transport accident
V59 Occupant of pick-up truck or van injured in other and unspecified transport accidents

Occupant of heavy transport vehicle injured in transport accident (V60-V69)
V60 Occupant of heavy transport vehicle injured in collision with pedestrian or animal
V61 Occupant of heavy transport vehicle injured in collision with pedal cycle
V62 Occupant of heavy transport vehicle injured in collision with two or three wheeled motor vehicle
V63 Occupant of heavy transport vehicle injured in collision with car, pick-up truck or van
V64 Occupant of heavy transport vehicle injured in collision with heavy transport vehicle or bus
V65 Occupant of heavy transport vehicle injured in collision with railway train or railway vehicle
V66 Occupant of heavy transport vehicle injured in collision with other nonmotor vehicle
V67 Occupant of heavy transport vehicle injured in collision with fixed or stationary object
V68 Occupant of heavy transport vehicle injured in noncollision transport accident
V69 Occupant of heavy transport vehicle injured in collision with unspecified transport accidents.
**Bus occupant injured in transport accident (V70-V79)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</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>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>
</tbody>
</table>

**Other land transport accidents (V80-V89)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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>
</tbody>
</table>

**Water transport accidents (V90-V94)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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 accident</td>
</tr>
</tbody>
</table>

**Air and space transport accidents (V95-V97)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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>
</tbody>
</table>

**Other and unspecified transport accidents (V98-V99)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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>
<tr>
<td>W12</td>
<td>Fall on and from scaffolding</td>
</tr>
<tr>
<td>W13</td>
<td>Fall from, out of or through building or structure</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>W14</td>
<td>Fall from tree</td>
</tr>
<tr>
<td>W15</td>
<td>Fall from cliff</td>
</tr>
<tr>
<td>W16</td>
<td>Diving or jumping into water causing injury other than drowning or submersion</td>
</tr>
<tr>
<td>W17</td>
<td>Other fall from one level to another</td>
</tr>
<tr>
<td>W18</td>
<td>Other fall on same level</td>
</tr>
<tr>
<td>W19</td>
<td>Unspecified fall</td>
</tr>
</tbody>
</table>

**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 object
- 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 lawn mower
- 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 and 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
- W61: 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
- W71: 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
W95 Exposure to other and unspecified man-made environmental factors

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

Contact with heat and hot substances (X10-X19)
X10 Contact with hot drinks, food, fats and cooking oils
X11 Contact with hot tap-water
X12 Contact with other hot fluids
X13 Contact with steam and hot vapours
X14 Contact with hot air and gases
X15 Contact with hot household appliances
X16 Contact with hot heating appliances, radiators and pipes
X17 Contact with hot engines, machinery and tools
X18 Contact with other hot metals
X19 Contact with other and unspecified heat and hot substances

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

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

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

Overexertion, travel and privation (X50-X57)
X50 Overexertion and strenuous or repetitive movements
X51 Travel and motion
X52 Prolonged stay in weightless environment
X53 Lack of food
X54 Lack of water
X57 Unspecified privation

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

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 object
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 undermined 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 psychodepressive and psychotomimetic (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 submerision, undetermined intent
Y22  Handgun discharge, undetermined intent

Y23  Rifle, shotgun and larger firearm discharge, undermined intent
Y24  Other and unspecified firearm discharge, undermined intent
Y25  Contact with explosive material, undermined intent
Y26  Exposure to smoke, fire and flames, undermined intent
Y27  Contact with steam, hot vapours and hot objects, undermined intent
Y28  Contact with sharp object, undermined intent
Y29  Contact with blunt object, undermined intent
Y30  Falling, jumping or pushed from a high place, undermined intent
Y31  Falling, lying or running before or into moving object, undermined intent
Y32  Crashing or motor vehicle, undermined intent
Y33  Other specified events, undermined intent
Y34  Unspecified event, undermined 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, otolaryngological and dental drug
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 Otolaryngological 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 procedure 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 of 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-
Persons encountering health services for examination and investigation (Z00-Z13)

- Z00 General examination and investigation of persons without complaint or 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 neoplasm
- Z10 Routine general health check-up of defined subpopulation
- Z11 Special screening examination for infectious and parasitic diseases
- Z12 Special screening examination for neoplasm
- Z13 Special screening examination for other diseases and disorders

Persons with potential health hazards related to communicable diseases (Z20-Z29)

- Z20 Contact with and exposure to communicable diseases
- Z21 Asymptomatic human immunodeficiency virus (HIV) infection status
- Z22 Carrier of infectious disease
- Z23 Need for immunization against single bacterial diseases
- Z24 Need for immunization against certain single viral diseases
- Z25 Need for immunization against other single viral diseases
- Z26 Need for immunization against other single infectious diseases
- Z27 Need for immunization against combinations of infectious diseases
- Z28 Immunization not carried out
- Z29 Need for other prophylactic measures

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

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

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

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

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

- Z55 Problems related to education and literacy
- Z56 Problems related to employment and unemployment
Z57  Occupational exposure to risk-factor
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

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.

Persons encountering health services in other circumstances
(Z70-Z76)
Z70  Counselling related to sexual attitude, behaviour and orientation
Z71  Persons encountering health services for other counselling and medical advice, not elsewhere classified
Z72  Problems related to lifestyle
Z73  Problems related to life management difficulty
Z74  Problems related to care-provider dependency
Z75  Problems related to medical facilities and other health care
Z76  Persons encountering health services in other circumstances

Persons with potential health hazards related to family and personal history and certain conditions influencing health status (Z80-Z99)
Z80  Family history of malignant neoplasm
Z81  Family history of mental and behavioural disorders
Z82  Family history of certain disabilities and chronic diseases leading to disablement
Z83  Family history of other specific disorders
Z84  Family history of other conditions
Z85  Personal history of malignant neoplasm
Z86  Personal history of certain other diseases
Z87  Personal history of other diseases and conditions
Z88  Personal history of allergy to drugs, medicaments and biological substances
Z89  Acquired absence of limb
Z90  Acquired absence of organs, not elsewhere classified
Summary

- MCCD Scheme is implemented under **RBD Act, 1969**, Section 10(2) (3) and Maharashtra Registration of Births and Deaths Rules, 2000-Rule 7.
- It is obligatory to the attending physician/surgeon to certify death in **form No. 4/4A**.
- It is the legal responsibility of the head of institutions to submit MCCD to the local Registrar.
- Fill in form No.4 for institutional deaths and 4A for domiciliary events but certified by private medical practitioners.
- Do not fill in MCCD form 4/4A for still births.
- Each and every column of certificate should be filled in.
- Cause of Death :-
  
  (I) Write the immediate cause, first.
  
  (ii) Antecedent cause on next line.
  
  (iii) Underlying cause, last.
- In case of injury and poisoning- Write the type of injury and the part of the body involved and supplementary cause of injury/poisoning.
- In case of deaths due to HIV/AIDS write the seropositive status along with opportunistic infection or disease conditions responsible for fatal outcome.
- International Classification of Diseases 10th Revision (**ICD-10**) is used for classification of causes of deaths.