Developing a Coding Manual for an All-Injury Surveillance System at Emergency Departments:

The ISS coding manual

Background Report

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SUMMARY

Surveillance of injuries is essential for priority setting and for preventive interventions. The European Union has a long history of Emergency Department based injury surveillance. These data are the basis for several actions concerning injury prevention. The aim of the present project was to develop a coding manual for a surveillance system on injuries that can be used at Emergency Departments throughout the European Union and that is based on best practices for classifications and injury surveillance. This new Injury Surveillance System (ISS) coding manual is meant to record information at (a selection of) Emergency Departments within the European Union on all accidents/injuries attending these departments: an all injury coding manual. Therefore, the ISS coding manual contributes to the standardisation of injury and accident surveillance in the European Union: it is the basis for comparability of injury data from different member states.

Coding manual

The ISS coding manual is based on data elements and codes from three sources:
- International Classification of External Causes of Injuries (ICECI), a classification of the World Health Organization (WHO) for the external causes of injuries with an alpha status, subject to formal procedures for acceptance as related classification within the Family of International Classifications of the WHO;
- the Home and Leisure Accidents V2000 coding manual (HLA V2000), used for recording home and leisure accident data for the former European Home and Leisure Accident Surveillance System (EHLASS);
- the Minimum Data Sets on Injuries (MDS-Is), developed under the auspices of the European Commission and meant to record information on accidents/injuries in less resourced (as far as information or money is concerned) settings.

The data elements relevant for the ISS-coding manual (20 in total) on injuries were selected from all three sources:
- ICECI version 1.1a: data elements related to the external causes
- HLA V2000: additional data elements needed for injury surveillance: patient data, follow-up, administrative data, narrative
- MDS-Is: type of injury and body part

The current HLA V2000 coding manual provided the guidance for determining this level of detail: the actual codes.

Implementation

The HLA V2000 manual will be replaced by the ISS coding manual. It is recommended to actually start using the ISS coding manual (as successor of the previous EHLASS coding manuals, including HLA V2000) from January 1, 2005. Before the ISS manual can actually be used in practice, translations and conversion tables are needed, but also software (f.i. for data entry) needs to be adjusted and staff needs to be trained. It is recommended to publish the ISS coding manual on both the website of the European Commission and the website of ICECI.
**Maintenance**

The ISS coding manual can be regarded as a derivative from ICECI with additional elements. That means that part of the maintenance of the ISS coding manual will be carried out in conjunction with the ICECI maintenance procedures, together with experts using the ISS coding manual.

The Working Party on Injuries within the European Public Health Programme should play an important role in promoting the use and maintaining the ISS coding manual. It is recommended to establish a Task Force as part of this Working Party. This Task Force should at least have a clearinghouse function, communicate with the Co-ordination and Maintenance group of ICECI, actively collect suggestions for improving the coding manual, maintain conversion tables, and distribute new releases of the coding manual.
1 INTRODUCTION

1.1 Background

Accidents are a major problem for society, both in terms of the extent of the problem and its consequences. In order to decide which accidents should receive priority for injury prevention, and which intervention measures are potentially effective, the main features of accidents and injuries that occur should be known. So, surveillance of injuries is necessary in order to assess the magnitude of the injury problem, assist in the design of preventive interventions and evaluate their effectiveness. In conclusion, surveillance of accidents and injuries is essential for transparent priority setting and for designing preventive interventions.1

In the past few years, surveillance of injuries at Emergency Departments of hospitals has turned out to be an important source of information for accident prevention. The European Union has a long history of Emergency Department based injury surveillance by means of the European Home and Leisure Accident Surveillance System (EHLASS).2 These data have been the basis for several actions concerning accident prevention. However, this system is limited to collecting information only about home and leisure accidents with the purpose of preventing as far as possible those accidents in which consumer products are involved. EHLASS was not designed to collect information on other accidents categories.

In the workplan of the European Commission on community action in the field of public health (2003-2008) it is stated that information should be collected on all injuries (including self-inflicted injuries and violence). This means that the scope of EHLASS should be broadened. Standardisation of the data elements and codes used to record the information is essential for international comparisons and is helpful for those setting up surveillance systems (prevent re-inventing wheels). The advantage of having an all injury surveillance system that is incorporated in a health system like the Emergency Departments is that the data collectors don’t have to deal with the artificial distinction between home and leisure accidents and other accident categories or even diseases.

Two relevant international developments concerning accident and injury classification should be taken into account when developing a coding manual to be used for injury surveillance at Emergency Departments.

Firstly, the International Classification of External Causes of Injuries (ICECI) is developed (www.iceci.org). ICECI is the result of more than two decades of debate about the need to upgrade the classic tool for injury data representation: the external cause codes of the International Classification of Diseases (ICD). A couple of initiatives were taken which merged into a joint international endeavour under the auspices of the World Health Organisation (WHO). These developments resulted in ICECI version 1.1a,3 a tool for injury researchers and data collectors, based on best practices in injury surveillance. ICECI is a WHO related classification in development and is currently subject to formal WHO procedures for acceptance as related classification within the WHO Family of International Classifications (FIC). In October 2002 it was decided that ICECI has reached the alpha-version within the FIC. In October 2003, a decision will be taken on the beta-version of ICECI version 1.1a. For the future of Emergency Department injury surveillance it is essential to have...
a link with the relevant standard classifications in health care, especially ICD. ICECI was developed in a way that it is linked with ICD.

Secondly, Minimum Data Sets on Injuries (MDS-Is) were developed under the auspices of the European Commission. These MDS-Is are an additional instrument for monitoring injuries in settings and/or countries with limited resources and/or which start recording injuries. The MDS-Is are uniformly applicable in different health care settings (fatalities, hospital admissions, General Practitioners) at national and local level. The MDS-Is are based on ICECI, ICD and the Home and Leisure Accidents coding manual (HLA V2000; currently used for recording home and leisure accidents in the Injury Surveillance System database, the former EHLASS). The MDS-Is are a useful instrument for monitoring injuries in settings and/or communities with limited resources and are suitable as a reporting format for comparing injury data in general. However, it collects only data minimally necessary for monitoring injuries. This insufficient for injury surveillance as a basis for priority setting and input for preventive measures.

1.2 Aim

The aim of this project is to develop a coding manual that can be used for the surveillance of all injuries treated in Emergency Departments throughout the European Union based on ICECI: the Injury Surveillance System (ISS) coding manual.

ICECI only includes data elements on external causes and is a pick and choose system as far as the data elements are concerned but also the level of detail per data element. Therefore the current Coding Manual for the ISS Database, HLA V2000, and the recently developed MDS-Is should be taken into account for selecting data elements not included in ICECI and the level of detail possible for data collection at Emergency Departments in Europe.

1.3 Outline

This report follows the procedures used for developing the ISS coding manual. This means that Chapter 2 describes the method we used to create the coding manual. Chapter 3 deals with the results of this process. In Chapter 4 you can find our conclusions and recommendations. The draft ISS coding manual is presented in Annex 1. The final ISS coding manual in included in a separate report: The injury surveillance system at Emergency Departments: The ISS coding manual.
2 METHODS

The aim of this project was to develop a coding manual for surveilling accidents and injuries at Emergency Departments throughout the European Union, based on the International Classification of External Causes of Injuries (ICECI), the Home and Leisure Accident V2000 coding manual (HLA V2000), and the Minimum Data Sets on Injuries (MDS-Is).

In this chapter we give an overview of the methods used to develop a new coding manual: the ISS coding manual. First we provide the main features of the sources of information, after which we describe the general method to select the relevant data elements and its accompanying codes.

2.1 Sources of information

Three sources provided the most important input for drafting the new ISS coding manual: ICECI, HLA V2000, and MDS-Is. The main features of these sources are described in the next three sections. Based on the method described in the section 2.2, we have made a draft version, which was sent to all IPP contact persons for comments. Their comments were included in the final version.

2.1.1 ICECI

Traditionally, injury data have been represented using the external cause codes of the International Classification of Diseases (ICD). For more than two decades, experts have argued that the ICD codes lack the scope and specificity needed to effectively inform injury prevention and control activities. As a result of these debates, injury professionals around the world, under the auspices of the World Health Organization (WHO), have worked to develop an improved tool for capturing injury data. This tool is ICECI. Based on best practices of injury surveillance and on international consensus about how external causes may be described, ICECI helps researchers and prevention practitioners to:
- define more precisely the domain of injuries they are studying;
- answer questions on the circumstances of the injuries; and
- provide more detailed information about specific accident categories, like home and leisure accidents or traffic accidents.

A draft of ICECI was tested in 1999. During this testing phase, 39 experts from 27 organisations in 13 countries coded case scenarios, several international experts in the field of (a subset of) injuries reviewed the codes, and 60 experts from 30 organisations in 14 countries conducted actual field tests. In addition, parts of ICECI were tested in the USA and Europe. Feedback resulting from the testing activities was incorporated into the first version of ICECI. Some taxonomic irregularities of version 1.0 of the data dictionary came to light during indexing. A project to undertake taxonomic review and refinement was conducted and changes arising from this project were incorporated in version 1.1. Based on the use of ICECI in practice, some other changes were included. This resulted in ICECI version 1.1a. This version is the basis for the development of the new ISS coding manual.

ICECI can be used as a companion to ICD-10, allowing for more detailed data capture in Emergency Departments, clinics, and in-patient hospital settings; in ad hoc studies and surveys; and possibly in mortality registration systems. The comparability between ICD-10 and ICECI is achieved at the level of
the matrix developed by the Centers for Disease Control and Prevention in the US (www.cdc.gov/nchs/about/otheract/ice/matrix10.htm). This matrix is a recommended framework for injury mortality data and serves as a standard for the uniform tabulation and analysis of injury mortality data classified by ICD. Data coded to either ICECI or ICD-10 Chapter XX can be reported in accordance with the matrix.

ICECI is a “pick and choose” multi-axial classification system. As such, it proposes a series of recommended data elements that can be used to collect information about a variety of external cause related topics at varying levels of detail. This means that the number of data elements and modules, as well as the level of detail to be recorded for each data element or module, can be selected to meet local needs and resources.

In addition to the data elements that are applicable to a wide range of injury topics, ICECI includes several modules: clusters of data elements about specific subjects. These modules can be used as stand-alone items, but they can also be used in combination with the basic data elements. There is hierarchy in the ICECI code sets, meaning that codes on a more detailed level can be aggregated to a lesser level of detail. This hierarchical structure, along with the multi-axial quality, ensures consistency of all applications at the basic level.

The core data elements included in ICECI are:
- Intent
- Mechanism of Injury
- Object/Substance
- Place of Occurrence
- Activity when Injured
- Alcohol Use
- Psychoactive Drug Use

The modules included in ICECI are:
- Violence
- Transport accidents
- Place of occurrence
- Sports injuries
- Occupational accidents

ICECI is a classification system of which elements can be used to set up a registration system. Depending on the objectives and setting of the registration system, data elements from ICECI need to be completed with items that are necessary for actual data recording.

The ICECI website contains the most recent versions of the data elements, updates about testing and the comparability with ICD-10, contact information for key persons working on ICECI, developments concerning derivatives of ICECI, relevant background information about ICECI, availability of translations, and relevant links.
ICECI is a WHO classification for the external causes of injuries with an alpha status, subject to formal procedures for acceptance as a related classification within the WHO Family of International Classifications. ICECI will undergo continuous development, as practical experience leads to recommendations for improvements and adjustments in coding and guidelines.

2.1.2 HLA V2000 coding manual

The former EHLASS (currently being called Injury Surveillance System, ISS), introduced in 1986 to foster a consumer protection and product safety policy, is an important source of information about victims of home and leisure accidents treated at Emergency Departments of hospitals. The current HLA V2000 coding manual is the result of changes in the version of 1986 and the version of 1997. The current coding manual is based on the experiences in all Member States of the European Union (EU) in applying the previous coding manuals for data collection at Emergency Departments. The coding manual is meant for collecting information only on home and leisure accidents.

The data elements included in HLA V2000 are:
- country code
- hospital number
- case number
- sex of patient
- date of birth
- date of injury
- time of injury
- date of attendance
- time of attendance
- date of discharge
- treatment and follow-up
- place of occurrence
- mechanism of injury
- activity
- sports
- type of injury
- part of the body injured
- product involved in the accident
- product causing the injury
- other product
- accident description

The HLA V2000 coding manual is currently being used for home and leisure accident data collection at a number of Emergency Departments in the EU Member States (the former EHLASS).

2.1.3 Minimum Data Sets on Injuries (MDS-Is)

Accident data collection at Emergency Departments is an important source of information about victims of home and leisure accidents. But a great number of Member States, communities and other parties interested in injury prevention, see the need for injury information from other health-care settings (e.g. hospital admissions, general practitioner attendances) as well. To prevent parties from
re-inventing the wheel, and thus the chance of ending up with incomparable databases, a common instrument was needed for monitoring injuries, at a national, regional and local level. This instrument, the MDS-Is took into account the variety in objectives and settings and the availability of resources, and it is compatible to the most relevant existing classification systems.

MDS-Is are an instrument for monitoring injuries in settings and/or countries using limited resources and/or which are starting to record injuries. In the latter case it can be seen as a first step in a process of gradually expansion of information collection by adding new modules of information such as on products and other relevant risk factors. The MDS-Is are also suitable as a basic reporting format for comparing injury data between Member States.

The MDS-Is are lists of data elements including their values. They are based on relevant existing classifications: the ICD, the HLA V2000 coding manual, and ICECI. They are flexible applicable (the level of detail depends on the objective of the injury data collection) and the contents of the MDS-Is is based on the current international state of the art concerning injury classifications. The MDS-Is can be regarded as a derivative of ICECI.

The MDS-Is are not developed to replace existing injury monitoring systems. They represent a minimal necessary data set for monitoring injuries in yet a meaningful way, while securing comparability of data with international classifications like ICECI and the possibility for more detailed monitoring systems like the former EHLASS.

There are three levels of potential implementation of MDS-Is in Europe:
- as a reporting format: enabling the comparison and exchange of data between settings equipped with detailed, injury monitoring systems. The main target groups will be injuries resulting in death, hospital admission or Emergency Department attendance.
- as a tool for improving the informative value of existing injury monitoring systems. The main target groups will be injuries resulting in death and those resulting in hospital admission.
- as a registration system: providing settings with limited sources or with no experience in injury monitoring with a tool for collecting injury data. The main target group will be injuries resulting from Emergency Department attendance and other, small-scale health care attendance.

The added value of the MDS-Is for the Member States and the European Commission is:
- a uniform way of reporting data on injuries at national and EU-level;
- a standardised tool for injury data collection through standard health statistics registrations which usually record only limited information on injuries, like death certificates and hospital discharge; and
- a basis for starting injury data collection in settings in which the former EHLASS is (yet) too detailed.

The draft MDS-Is were reviewed in 10 EU countries and field-tested in 7 EU countries. The testing results formed the input for the development of the final MDS-Is: four levels of objectives and four different health care settings. This led theoretically to sixteen MDS-Is. The wish for as few MDS-Is as possible applicable in as many settings as possible, combined with the possibility of data collection in the specific health care settings led to the decision to develop only five MDS-Is. Table 1 shows the objectives, settings and the MDS-Is. Table 2 presents an overview of the necessary data elements per MDS-I, setting and objective.
Table 1  Health-care settings combined with objectives: 5 final MDS-Is

<table>
<thead>
<tr>
<th>Objectives</th>
<th>Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fatalities</td>
</tr>
<tr>
<td>1  Monitor the total number of injured persons in the specified setting</td>
<td>MDS-I-1</td>
</tr>
<tr>
<td>2  Monitor the total number of injured persons by intention</td>
<td>MDS-I-2</td>
</tr>
<tr>
<td>3  Monitor the total number of injured persons by major accident type, major type of violence and major type of intentional self-harm</td>
<td>MDS-I-3</td>
</tr>
<tr>
<td>4  Monitor the total number of injured persons by specific categories</td>
<td>MDS-I-4</td>
</tr>
</tbody>
</table>

Table 2  Necessary data elements per MDS-I

<table>
<thead>
<tr>
<th>Data elements</th>
<th>All settings</th>
<th>Objective 1 MDS-I-1</th>
<th>Objective 2 MDS-I-2</th>
<th>Objective 3 MDS-I-3</th>
<th>Fatalities / other health care attendances</th>
<th>Hospital admissions / ED attendances</th>
</tr>
</thead>
<tbody>
<tr>
<td>General information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MDS-I-4</td>
<td>MDS-I-5</td>
</tr>
<tr>
<td>Date</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Injury 1</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Personal data</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MDS-I-4</td>
<td>MDS-I-5</td>
</tr>
<tr>
<td>Age injured person</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Sex injured person</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Country of residence</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Injury event information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MDS-I-4</td>
<td>MDS-I-5</td>
</tr>
<tr>
<td>Intent</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Place</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MDS-I-4</td>
<td>MDS-I-5</td>
</tr>
<tr>
<td>Activity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MDS-I-4</td>
<td>MDS-I-5</td>
</tr>
<tr>
<td>Vehicle involvement</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Mechanism</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MDS-I-4</td>
<td>MDS-I-5</td>
</tr>
<tr>
<td>Sports</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MDS-I-4</td>
<td>MDS-I-5</td>
</tr>
<tr>
<td>Mode of transport injured person</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Counterpart</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MDS-I-4</td>
<td>MDS-I-5</td>
</tr>
<tr>
<td>Injury information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MDS-I-4</td>
<td>MDS-I-5</td>
</tr>
<tr>
<td>Nature of injury</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Body part injured</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Follow-up</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MDS-I-4</td>
<td>MDS-I-5</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MDS-I-4</td>
<td>MDS-I-5</td>
</tr>
<tr>
<td>Narrative</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

1 If no, the remaining data elements are no longer relevant
2.2 Structure of the ISS coding manual

The structure of the new developed ISS coding manual is based on two steps. First we have selected the data elements that should be incorporated in the ISS coding manual. The second step was to decide which codes to be included per data element.

Selection of the data elements
The data elements relevant for the ISS-coding manual on injuries were based on the core data set of ICECI (i.e. excluding the modules). Since ICECI only relates to external causes additional data elements relevant for injury surveillance were needed, like age and sex of the victim. Those additional data elements were determined by examining HLA V2000 and the MDS-Is.

Selection of the permissible values
In determining the actual codes including the description per data elements, four strategies were followed:
- The codes of the data elements which are included in ICECI, but not HLA V2000, were included in the ISS coding manual without any changes. The same applies for the codes of data elements which were included in HLA V2000, but not in ICECI.
- Some of the selected data elements were included both in ICECI and in HLA V2000. We used the following basic rules for the determining the codes to be included. The classification of ICECI was used as the guideline, while we incorporated the level of detail from the HLA V2000 manual (since past experience has pointed out that this level should be possible to collect at Emergency Departments). This means that wherever HLA V2000 was more detailed than ICECI, new codes were added or inclusion criteria were extended or changed.
- A similar strategy is followed for the codes of data elements that are not included in ICECI, but are included in HLA V2000 and MDS-Is. If so, the design of the classification of the MDS-Is was used as a guideline, but the level of detail of the codes in HLA V2000 was incorporated in the MDS-Is variables. This means that wherever HLA V2000 was more detailed than MDS-Is, new codes were added or inclusion criteria were extended or changed.
- For the codes for the data element “Object/substance producing injury”, ICECI was the leading classification. The existing main groupings of ICECI and HLA V2000 were compared. Headings of HLA V2000, which were not included in ICECI were added to ICECI. Only the main headings were compared, because it was unfeasible to compare the subcodes including the in- and exclusion criteria. We also assumed that it is possible to code everything within the subcodes ‘other specified’ and ‘unspecified’.

The lay-out and the actual codes (hierarchy, numbering etceteras) of all the data elements was based on ICECI.

Inclusion, exclusion criteria
The in- and exclusion criteria were mainly based on the original source for the data element. However, sometimes criteria were added because of changes that had to be made in the classification (like merging codes) or because of discussions during the process.
3 RESULTS

In this chapter we describe the development and the content of the ISS coding manual. We created this manual based on the current use of and experience with existing systems (ICECI, HLA V2000, MDS-Is). First, we describe the selection of the data elements (section 3.1). Section 3.2 presents the followed strategies to create a draft coding manual by comparing the permissible values of the data elements in the ICECI coding manual, HLA V2000 and MDS-Is. After the draft coding manual was commented by the current contact persons for the Injury Prevention Programme (IPP, see section 3.3), the final version was created. Differences between the draft and final version are described in section 3.4.

3.1 Selection of the data elements

The coding manual includes data elements from the core set of ICECI and additional relevant data elements from HLA V2000 and MDS-Is. Data elements were selected from all three sources:
- one data element which was only included in ICECI
- ten data elements which were not included in ICECI, but were included in HLA V2000
- five data elements which were included in both ICECI and HLA V2000
- two data elements which were included in both MDS-Is and HLA V2000

An overview of the selected data elements included in the ISS-coding manual and their source is shown in Table 1.

Table 1. Data-elements included in the ISS-coding manual and their source

<table>
<thead>
<tr>
<th>Data-element</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Country code</td>
<td>HLA V2000</td>
</tr>
<tr>
<td>Hospital number</td>
<td>HLA V2000</td>
</tr>
<tr>
<td>Case number</td>
<td>HLA V2000</td>
</tr>
<tr>
<td>Age of the patient</td>
<td>HLA V2000</td>
</tr>
<tr>
<td>Sex of patient</td>
<td>HLA V2000</td>
</tr>
<tr>
<td>Date of birth</td>
<td>HLA V2000</td>
</tr>
<tr>
<td>Date of injury</td>
<td>HLA V2000</td>
</tr>
<tr>
<td>Time of injury</td>
<td>HLA V2000</td>
</tr>
<tr>
<td>Date of discharge</td>
<td>HLA V2000</td>
</tr>
<tr>
<td>Treatment and follow-up</td>
<td>HLA V2000</td>
</tr>
<tr>
<td>Intent</td>
<td>ICECI</td>
</tr>
<tr>
<td>Place of occurrence</td>
<td>HLA V2000 and ICECI</td>
</tr>
<tr>
<td>Mechanism of injury</td>
<td>HLA V2000 and ICECI</td>
</tr>
<tr>
<td>Activity when injured</td>
<td>HLA V2000 and ICECI</td>
</tr>
<tr>
<td>Type of sports/exercise activity</td>
<td>HLA V2000 and ICECI</td>
</tr>
<tr>
<td>Type of injury</td>
<td>HLA V2000 and MDS-Is</td>
</tr>
<tr>
<td>Part of the body injured</td>
<td>HLA V2000 and MDS-Is</td>
</tr>
<tr>
<td>Object/substance producing injury</td>
<td>HLA V2000 and ICECI</td>
</tr>
<tr>
<td>Narrative</td>
<td>HLA V2000</td>
</tr>
</tbody>
</table>
3.2 Permissible values of the data elements

When the selected data elements had to be adapted, for example because HLA V2000 was more detailed, three strategies were followed (see also section 2.2).

1. When the selected data element in HLA V2000 was more detailed than in ICECI, new main codes and, when possible and/or necessary, new sub-codes were added to ICECI. These new codes are based on the lay-out (hierarchy and numbering) of ICECI. For example, the category ‘Musical Instruments’ in the data element ‘Object’ is included in HLA V2000, but not in ICECI. Therefore, a new main code is added to the ICECI codes, i.e. 98.07. For the specific instruments, new sub-codes were created (98.0701 etc).

<table>
<thead>
<tr>
<th>For example</th>
<th>HLA V2000 codes</th>
<th>New codes in ISS coding manual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Musical instruments</td>
<td>M00</td>
<td>98.07</td>
</tr>
<tr>
<td>Piano</td>
<td>M0000</td>
<td>98.0701</td>
</tr>
<tr>
<td>Electric guitar</td>
<td>M0010</td>
<td>98.0705</td>
</tr>
<tr>
<td>Wind instrument</td>
<td>M0020</td>
<td>98.0710</td>
</tr>
<tr>
<td>Musical instrument, other specified</td>
<td>M0098</td>
<td>98.0798</td>
</tr>
<tr>
<td>Musical instrument, unspecified</td>
<td>M0099</td>
<td>98.0799</td>
</tr>
</tbody>
</table>

2. Since the classification of ICECI is leading when a data element is part of both ICECI and HLA V2000, it was not always possible to create new sub-codes within the lay-out of ICECI. If so, the sub-codes of HLA V2000 were added as inclusion criteria. For example, the category ‘Stationary equipment in amusement parks’ in HLA V2000 is more detailed than in ICECI 1.1a. The specific equipment mentioned in HLA V2000 are included in the corresponding category of ICECI (6.03.45), because it is not possible to create new sub-codes without changing the structure of ICECI.

For example:

<table>
<thead>
<tr>
<th>HLA V2000</th>
<th>ICECI 1.1a</th>
<th>ISS coding manual</th>
</tr>
</thead>
<tbody>
<tr>
<td>B03 Stationary equipment in amusement parks</td>
<td>6.0345</td>
<td>Powered amusement rides</td>
</tr>
<tr>
<td>B0300 Joy car, bumper car</td>
<td>Includes:</td>
<td>roller coaster</td>
</tr>
<tr>
<td>B0305 Merry go-round</td>
<td>shopping mall ride</td>
<td></td>
</tr>
<tr>
<td>B0307 Roller-coaster</td>
<td>6.0398</td>
<td>Other specified playground equipment</td>
</tr>
<tr>
<td>B0309 Amusement trains</td>
<td>6.0399</td>
<td>Unspecified playground equipment</td>
</tr>
<tr>
<td>B0311 Maze</td>
<td>Merry-go-round</td>
<td>Amusement trains</td>
</tr>
<tr>
<td>B0320 Bumper boat</td>
<td></td>
<td>Bumper boat</td>
</tr>
<tr>
<td>B0325 Ferris wheel</td>
<td></td>
<td>Ferris wheel</td>
</tr>
<tr>
<td>B0330 Rodeo horse/bull (artificial)</td>
<td></td>
<td>Rodeo horse/bull (artificial)</td>
</tr>
<tr>
<td>B0340 Inflatable bouncer, bouncing castle</td>
<td>6.0398</td>
<td>Other specified</td>
</tr>
<tr>
<td>B0398 Other specified</td>
<td>Includes:</td>
<td>Maze</td>
</tr>
<tr>
<td>B0399 Unspecified</td>
<td></td>
<td>Inflatable bouncer, bouncing castle</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6.0399</td>
</tr>
</tbody>
</table>
3. When a heading is more general in HLA V2000 than in ICECI 1.1a, headings in ICECI are replaced by those from HLA V2000,

For example:

<table>
<thead>
<tr>
<th>HLA</th>
<th>ICECI</th>
<th>ISS coding manual</th>
</tr>
</thead>
<tbody>
<tr>
<td>H 51 Tools for needlework</td>
<td>7.0510 Pin, needle</td>
<td>7.0510 Tools for needlework</td>
</tr>
</tbody>
</table>

All changes in the data elements of ICECI are underlined in the draft version of the ISS coding manual (see Annex 1). The changes are also systematically ordered in Annex 2.

3.3 Comments

On February 21 2003, all IPP contact persons (approximately 30) were informed about the project and to ask for time in March 2003 for commenting the draft version of the ISS-coding manual. On March 11 2003, the draft version was mailed to them (see Annex 3). They were asked to send their comments back before April 1, 2003. Two contact persons responded with useful detailed comments (see Annex 4).

3.4 Final version

A complication during the project was the fact that during that time, a new version of ICECI 1.1a was released. To be really updated, it was decided to include the (minor) changes between ICECI 1.1 and ICECI 1.1a in the final ISS coding manual. This section includes the changes that were included based on the comments from two contact persons and the new version of ICECI.

3.4.1 General

Injuries are usually the result of a sequence of events. Different types of mechanisms are usually involved in the injury (i.e. underlying mechanisms, direct mechanisms, intermediate mechanisms). In the draft version of the ISS coding manual it is prescribed to code all mechanisms, like it is suggested for ICECI. However, to minimise the burden on the hospital staff, it was decided to code only the direct mechanism, just like in HLA V2000.

During the execution of this project, version 1.1.a of the ICECI manual was published. The differences between this new version and version 1.1 were compared and, if necessary, incorporated into the ISS coding manual (see Table 2).
<table>
<thead>
<tr>
<th>ICECI version 1.1</th>
<th>ICECI version 1.1.a</th>
<th>ISS coding manual</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mechanism:</strong></td>
<td><strong>Mechanism:</strong></td>
<td><strong>Mechanism:</strong></td>
</tr>
<tr>
<td>1.21 Contacting moving object</td>
<td>1.21 Contact with moving object</td>
<td>1.21 Contact with moving object</td>
</tr>
<tr>
<td>1.22 Contacting static object</td>
<td>1.22 Contacting static object</td>
<td>1.22 Contacting static object</td>
</tr>
<tr>
<td>1.25 Contacting animal</td>
<td>1.25 Contact with animal</td>
<td>1.25 Contact with animal</td>
</tr>
<tr>
<td>1.42 Crushing between individual persons</td>
<td>1.42 Crushing between persons</td>
<td>1.42 Crushing between persons</td>
</tr>
<tr>
<td>2.22 Shot by firearm</td>
<td>2.22 Shot by firearm</td>
<td>2.22 Shot by firearm</td>
</tr>
<tr>
<td>Includes: Shot nos</td>
<td>Includes: Shot nos</td>
<td>Includes: Shot nos</td>
</tr>
<tr>
<td>2.24 Shot by other weapon</td>
<td>2.24 Shot by other weapon</td>
<td>2.24 Shot by other weapon</td>
</tr>
<tr>
<td>Includes: Shot nos</td>
<td>Includes: Shot nos</td>
<td>Includes: Shot nos</td>
</tr>
<tr>
<td>4.11 Contact with hot liquid, steam, other gas</td>
<td>4.11 Contact with hot liquid, steam, other hot gas</td>
<td>4.11 Contact with hot liquid, steam, other hot gas</td>
</tr>
<tr>
<td>6.28 Other specified corrosion</td>
<td>6.28 Corrosion by other specified substance</td>
<td>6.28 Corrosion by other specified substance</td>
</tr>
<tr>
<td>6.29 Unspecified corrosion</td>
<td>6.29 Corrosion by unspecified substance</td>
<td>6.29 Corrosion by unspecified substance</td>
</tr>
<tr>
<td>8 Exposure to (effect of) weather condition, natural disaster, or other force of nature</td>
<td>8 Exposure to (effect of) weather, natural disaster, or other force of nature</td>
<td>8 Exposure to (effect of) weather, natural disaster, or other force of nature</td>
</tr>
<tr>
<td>8.2 Exposure to (effect of) wind condition</td>
<td>8.2 Exposure to (effect of) wind condition</td>
<td>8.2 Exposure to (effect of) wind condition</td>
</tr>
<tr>
<td>8.24 Exposure to blizzard</td>
<td>8.24 Exposure to blizzard</td>
<td>8.24 Exposure to blizzard</td>
</tr>
<tr>
<td>Excludes: Snow storm</td>
<td>Excludes: Snow storm</td>
<td>Excludes: Snow storm</td>
</tr>
<tr>
<td>8.34 Exposure to tidal wave, tsunami</td>
<td>8.34 Exposure to tidal wave</td>
<td>8.34 Exposure to tidal wave</td>
</tr>
<tr>
<td>Includes: Tsunami</td>
<td>Includes: Tsunami</td>
<td>Includes: Tsunami</td>
</tr>
<tr>
<td>8.8 Exposure to (effect of) other specified weather condition, natural disaster or other forces of nature</td>
<td>8.8 Exposure to (effect of) other specified weather, natural disaster or other forces of nature</td>
<td>8.8 Exposure to (effect of) other specified weather, natural disaster or other forces of nature</td>
</tr>
<tr>
<td>8.88 Exposure to other specified (effect of) weather condition, natural disaster or other forces of nature</td>
<td>8.88 Exposure to other specified (effect of) weather, natural disaster or other forces of nature</td>
<td>8.88 Exposure to other specified (effect of) weather, natural disaster or other forces of nature</td>
</tr>
<tr>
<td>8.9 Exposure to (effect of) other</td>
<td>8.9 Exposure to (effect of) other</td>
<td>8.9 Exposure to (effect of) other</td>
</tr>
<tr>
<td>Specified Weather Condition, Natural Disaster or Other Forces of Nature</td>
<td>Specified Weather, Natural Disaster or Other Forces of Nature</td>
<td>Specified Weather, Natural Disaster or Other Forces of Nature</td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td>---------------------------------------------------------------</td>
<td>---------------------------------------------------------------</td>
</tr>
<tr>
<td>98.1 Contact with Foreign Object</td>
<td>98.1 Contact with Foreign Object</td>
<td>98.1 Contact with Foreign Object</td>
</tr>
<tr>
<td>98.11 Foreign Object on Eye or Entering Into/Through Eye</td>
<td>98.11 Foreign Body on Eye or Entering Into/through Eye</td>
<td>98.11 Foreign Body on Eye or Entering Into/through Eye</td>
</tr>
<tr>
<td>98.12 Foreign Object Entering Into or Through Other Natural Orifice</td>
<td>98.12 Foreign Body Entering Into or Through Other Natural Orifice</td>
<td>98.12 Foreign Body Entering Into or Through Other Natural Orifice</td>
</tr>
<tr>
<td>98.18 Other Specified Contact with Foreign Body</td>
<td>98.18 Other Specified Contact with Foreign Object</td>
<td>98.18 Other Specified Contact with Foreign Object</td>
</tr>
<tr>
<td>98.19 Unspecified Contact with Foreign Body</td>
<td>98.19 Unspecified Contact with Foreign Object</td>
<td>98.19 Unspecified Contact with Foreign Object</td>
</tr>
</tbody>
</table>

**Type of Sport/Exercise Activity:**

<table>
<thead>
<tr>
<th>7.07 Track &amp; Field – Running Long Distances (Greater than 1,500 Meters)</th>
<th>7.07 Track &amp; Field – Running Long Distances (Greater than 1,501 Meters)</th>
<th>7.07 Track &amp; Field – Running Long Distances (Greater than 1,501 Meters)</th>
</tr>
</thead>
</table>

**Object:**

<table>
<thead>
<tr>
<th>1.0101 Transport Vehicle Drawn or Pushed by Person</th>
<th>1.0101 Transport Vehicle Drawn or Pushed by Person</th>
<th>1.0101 Transport Vehicle Drawn or Pushed by Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>Includes: Rickshaw</td>
<td>Excludes: Pedal Cycle Rickshaw</td>
<td>Excludes: Pedal Cycle Rickshaw</td>
</tr>
<tr>
<td>2.0110 Harvester Machine</td>
<td>2.0110 Harvester Machine</td>
<td>2.0110 Harvester Machine</td>
</tr>
<tr>
<td>Includes: Grape Harvester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.0101 Merchant Ship, Cargo Ship, Oil Tanker, Ferry Used for Intercontinental Travel</td>
<td>3.0101 Merchant Ship, Cargo Ship, Oil Tanker, Ferry Used for Intercontinental Travel</td>
<td>3.0101 Merchant Ship, Cargo Ship, Oil Tanker, Ferry Used for Intercontinental Travel</td>
</tr>
<tr>
<td>Excludes: Ferry Used for Short Trips Across Minor Rivers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Includes: Ferry Used for Crossing Long Distances on Open Waters</td>
<td>Excludes: Ferry Used for Crossing Long Distances on Open Waters</td>
<td>Excludes: Ferry Used for Crossing Long Distances on Open Waters</td>
</tr>
<tr>
<td>Includes: Ferry Used for Crossing Short Trips Across Closed Waters</td>
<td>Excludes: Ferry Used for Crossing Short Trips Across Closed Waters</td>
<td>Excludes: Ferry Used for Crossing Short Trips Across Closed Waters</td>
</tr>
<tr>
<td>7.0605 Video Recorder, Decoder Player</td>
<td>7.0605 Video Recorder, Decoder Player</td>
<td>7.0605 Video Recorder, Decoder Player</td>
</tr>
<tr>
<td>8.01 Cooking or Food Processing Utensil</td>
<td>8.01 Cooking or Food Processing Utensil</td>
<td>8.01 Cooking or Food Processing Utensil</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td>Includes:</td>
</tr>
<tr>
<td>--------</td>
<td>----------------------------------------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>10.0501</td>
<td>Aqualung</td>
<td>10.0501 Aqualung</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Includes: Scuba equipment</td>
</tr>
<tr>
<td>11.0135</td>
<td>Elevated work platform</td>
<td>11.0135 Elevated work platform</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Excludes: scaffolding</td>
</tr>
<tr>
<td>11.1045</td>
<td>Mains – gas, water, sewerage, steam, hot water, electricity</td>
<td>11.1045 Mains – gas, water, sewerage, steam, hot water, electricity</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Excludes: Pressure based equipment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Excludes: pressure-based equipment</td>
</tr>
<tr>
<td>16.0240</td>
<td>Liquid or frozen gas</td>
<td>16.0240 Frozen liquid or gas</td>
</tr>
<tr>
<td>19.0110</td>
<td>Solid food, hot</td>
<td>19.0110 Hot solid food</td>
</tr>
<tr>
<td>19.0120</td>
<td>Solid food, cold</td>
<td>19.0120 Cold solid food</td>
</tr>
<tr>
<td>20.0630</td>
<td>MAO inhibitors</td>
<td>20.0630 Monoamine oxidase (MAO) inhibitors</td>
</tr>
<tr>
<td>21.9803</td>
<td>Other sources of carbon monoxide</td>
<td>-</td>
</tr>
<tr>
<td>98.0405</td>
<td>Barbed wire</td>
<td>98.0405 Barbed wire</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Includes: razor wire</td>
</tr>
</tbody>
</table>

### 3.4.2 Processing of the comments

The draft version of the ISS coding manual was adapted to the comments of the IPP contact persons. The differences between the draft and final version of the manual are described in Table 3.
Table 3. Adaptations of the draft version of the ISS coding manual

<table>
<thead>
<tr>
<th>Draft version</th>
<th>Final version</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sex</strong></td>
<td><strong>Sex</strong></td>
</tr>
<tr>
<td>3 = Unknown</td>
<td>9 = Unknown</td>
</tr>
<tr>
<td>Data-elements ‘Date of attendance’ and ‘Time of attendance’ are not included</td>
<td>‘Date of attendance’ and ‘Time of attendance’ are included</td>
</tr>
<tr>
<td><strong>Treatment and Follow-up</strong></td>
<td><strong>Treatment and Follow-up</strong></td>
</tr>
<tr>
<td>7 = Deceased</td>
<td>7 = Deceased before arrival / deceased at emergency department</td>
</tr>
<tr>
<td>8 = Other</td>
<td>8 = Deceased during hospitalisation</td>
</tr>
<tr>
<td>9 = Unknown</td>
<td>98 = Other</td>
</tr>
<tr>
<td></td>
<td>99 = Unknown</td>
</tr>
<tr>
<td><strong>Treatment and Follow-up</strong></td>
<td><strong>Treatment and Follow-up</strong></td>
</tr>
<tr>
<td>No description of guide for use is given</td>
<td>Guide for use is described:</td>
</tr>
<tr>
<td></td>
<td>The coding form has two spaces for coding treatment and follow-up. Use the codes given below to indicate the kind of first (and follow-up) treatment the patient received.</td>
</tr>
<tr>
<td><strong>Activity</strong></td>
<td><strong>Activity</strong></td>
</tr>
<tr>
<td>Maintenance (of home) is referred both in 2.3 and 2.7</td>
<td>Maintenance in 2.3 is deleted</td>
</tr>
<tr>
<td><strong>Sports</strong></td>
<td><strong>Sports</strong></td>
</tr>
<tr>
<td>8 = Acrobatic sports</td>
<td>8 = Gymnastics with appliance</td>
</tr>
<tr>
<td><strong>Mechanism</strong></td>
<td><strong>Mechanism</strong></td>
</tr>
<tr>
<td>‘Complications of medical or surgical care’ is included</td>
<td>‘Complications of medical or surgical care’ is deleted</td>
</tr>
<tr>
<td><strong>Intent, Place, Mechanism, Activity, Part of the body injured, Object</strong></td>
<td><strong>Intent, Place, Mechanism, Activity, Part of the body injured, Object</strong></td>
</tr>
<tr>
<td>Short overview of the codes is not included</td>
<td>Short overview of the codes is included</td>
</tr>
<tr>
<td><strong>General</strong></td>
<td><strong>General</strong></td>
</tr>
<tr>
<td>Term ‘EHLASS V2000’ is used</td>
<td>Term ‘EHLASS V2000’ is replaced by ‘HLA V2000’</td>
</tr>
</tbody>
</table>

Some of the comments of the two IPP contact persons were not incorporated into the final version of the manual, mainly because the comments would need changes in ICECI and it was decided to stick to the ICECI classification as much as possible. Those suggestions are, however, brought to the attention to the ICECI maintenance group. Some suggested changes were beyond the scope of this project (e.g. including the Injury Severity Score, changing the coding system in a sequence of numbers or a number with 3 digits (integer) instead of 1 integer with two decimals).
4 CONCLUSIONS AND RECOMMENDATIONS

The aim of the present project was to develop a coding manual for a surveillance system on injuries that can be used at Emergency Departments throughout the European Union based on the International Classification of External Causes of Injuries (ICECI). This resulted in the new Injury Surveillance System (ISS) coding manual (see separate report) that is linked to the most important classification on external causes of injuries and that is based on decades of experience throughout the European Union with recording accident data at Emergency Departments.

**Level of detail**
The ISS coding manual is set up as an all-injury coding manual meant to record data on accidents and injuries at a level of detail that is on average possible at Emergency Departments. The coding manual for Home and Leisure Accidents V2000 (HLA V2000) provided the guidance for determining this level of detail. The best features of three sources were combined into the final ISS coding manual: ICECI, HLA V2000, and the Minimum Data Sets on Injuries (MDS-Is.). If for some specific accident/injury categories more detailed information is needed, sometimes a more detailed level is available within ICECI or one of the ICECI modules (e.g. occupational accidents, violence) can be used.

**Testing**
It is common to test a new coding manual to answer questions like the possibility to collect data in Emergency Departments, and to check the level into which the data elements and their permissible values meet the objectives defined (relevance, level of detail clarity etc.). However, since ICECI and the MDS-Is were already tested and used in practice, and the HLA V2000 coding manual is also already being used in practice, formal testing would be redundant.

In the next two sections recommendations are formulated for the actual implementation of the ISS coding manual for recording accident data at Emergency Departments as well as recommendations for the maintenance of the manual.

4.1 Implementation

**Translation**
The ISS coding manual is now only available in English. Translations into the European languages are needed to be able to apply the coding manual in all Member States. At the moment ICECI version 1.1a is only available in English, but a draft French version will be finalised within a couple of month. It is also intended to have ICECI translated into Spanish. So, the French and maybe also the Spanish translation of the ISS coding manual can benefit from the translations of ICECI. Translating a classification or a coding manual usually leads to suggestions for improvement. These suggestions should be taken into account when revising the coding manual.

It needs to be decided who will be responsible for translating the ISS coding manual.

**Comparability**
In order to be able to compare the data collected through the former EHLASS with data collected by means of the new ISS coding manual, conversion tables between coding manuals previously being
used for the former EHLASS, are necessary. It has to be decided which conversion tables are needed for historic comparisons and who will take care of that.

**Introduction**

It is recommended to actually use the coding manual as successor of the previous EHLASS coding manuals, including HLA V2000) from January 1, 2005. Sooner is not possible, since translations need to be available, software needs to be adjusted, staff should be trained etc. It should be stressed that if one wants to record injuries/accidents at an Emergency Department, the ISS coding manual should be the first choice. Only if this level of detail is too much, one might go for the MDS-Is.

**Publication**

It is recommended to publish the ISS coding manual on both the website of the European Commission and the website of ICECI (since the ISS coding manual is a derivative from ICECI). More active promotion is also needed. The Working Party on Injuries within the European Public Health Programme should play an important role in promoting the use of the ISS coding manual.

### 4.2 Maintenance

Of course a coding manual isn’t static: it should take into account practical experiences, including new types of accidents that occur. So, organising the maintenance in an efficient way is important.

**Link with existing classifications**

Figure 1 The link between the ISS coding manual and its sources.

Since the ISS coding manual is based on three sources (see Figure 1), the maintenance differs per source.
Some data elements or permissible values are mainly based on ICECI. The maintenance of this part of the coding manual should be directly linked to the ICECI Co-ordination and Maintenance group. Changes in ICECI should be incorporated in the ISS coding manual. On the other hand, any suggestions for improving ICECI based on experiences with the ISS coding manual should be discussed within the ICECI maintenance procedure.

Changes either to ICECI or to the ICD External Cause chapter, could affect the link between the two classification systems. In addition, revision of either system provides an opportunity to implement useful changes based on experience with the other, and for changes designed to improve comparability. Hence, development of the two systems will be coordinated. If the maintenance of the elements originating from ICECI is included in the ICECI Co-ordination and Maintenance group, changes in ICD will indirectly be included in the ISS coding manual.

The HLA V2000 manual will be replaced by the ISS coding manual. For those elements of the coding manual that are mainly based on HLA V2000, specific maintenance needs to be arranged. How the MDS-Is will be maintained, is not clear yet, since the project on the implementation is not finished yet. However, since the MDS-Is are, like the ISS coding manual, a derivative of ICECI, the maintenance will probably be organised similar.

In conclusion, it is recommended to incorporate the maintenance of the ISS coding manual as much as possible in the process of ICECI. Besides, the maintenance of the ISS manual and the MDS-Is should be combined.

**Task force**

Despite the fact that some of the maintenance of the ISS coding manual can be arranged by means of ICECI procedures, a structural arrangement should be made. It is recommended to have a dedicated group of experts (a task force) being responsible for the overall maintenance of the ISS coding manual. The group should have a clear link with other working groups, committees within the European Commission related to accident prevention, preferably as part of the Injury Working Party of the Programme of Public Health of the European Commission. It is recommended to combine the tasks for maintaining the coding manual with other tasks that are linked, like training staff in coding, advising organisations on injury surveillance, developing software, etc.

The group of experts should at least meet once a year (at a time when changes can be incorporated for the next year) to discuss the maintenance of the ISS coding manual. Of course suggested major changes should be thoroughly discussed before incorporating them, since they might have a major influence on the comparability between years.

**Tasks**

The recommended main tasks for maintaining the ISS coding manual should be:

- a clearinghouse function: answering questions from practitioners
- communication with the Co-ordination and Maintenance group of ICECI
- actively collect suggestions for improving the coding manual
- decide on any changes to be made (and keep records for historic analysis)
- maintain conversion tables
- check whether the information is available for third parties
- distribute new releases of the coding manual
- co-ordination of activities related to the coding manual, like adaptation of data-entry software

25
REFERENCES


2 European Communities Commission. Coding Manual for Home and Leisure Accidents, including product related accidents (HLA V2000); 2001


COUNTRY CODE

Required field length:
nn

Definition:
Person's country of residence at the time of the injury.

Context:
This data element provides additional information about the country of residence of the injured person. This enables the comparison of incidence rates between countries, important to prevention for practitioners as well as for policy makers.

Guide for use:
For identification of countries participating in a future common database, use the 2-digit code given.
<table>
<thead>
<tr>
<th>Code</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Andorra (AD)</td>
</tr>
<tr>
<td>02</td>
<td>Albania (AL)</td>
</tr>
<tr>
<td>03</td>
<td>Austria (AT)</td>
</tr>
<tr>
<td>04</td>
<td>Bosnia and Herzegovina (BA)</td>
</tr>
<tr>
<td>05</td>
<td>Belgium (BE)</td>
</tr>
<tr>
<td>06</td>
<td>Bulgaria (BG)</td>
</tr>
<tr>
<td>07</td>
<td>Switzerland (CH)</td>
</tr>
<tr>
<td>08</td>
<td>Cyprus (CY)</td>
</tr>
<tr>
<td>09</td>
<td>Czech Republic (CZ)</td>
</tr>
<tr>
<td>10</td>
<td>Germany (DE)</td>
</tr>
<tr>
<td>11</td>
<td>Denmark (DK)</td>
</tr>
<tr>
<td>12</td>
<td>Spain (ES)</td>
</tr>
<tr>
<td>13</td>
<td>Finland (FI)</td>
</tr>
<tr>
<td>14</td>
<td>France (FR)</td>
</tr>
<tr>
<td>15</td>
<td>Greece (GR)</td>
</tr>
<tr>
<td>16</td>
<td>Croatia (HR)</td>
</tr>
<tr>
<td>17</td>
<td>Hungary (HU)</td>
</tr>
<tr>
<td>18</td>
<td>Ireland (IE)</td>
</tr>
<tr>
<td>19</td>
<td>Iceland (IS)</td>
</tr>
<tr>
<td>20</td>
<td>Italy (IT)</td>
</tr>
<tr>
<td>21</td>
<td>Liechtenstein (LI)</td>
</tr>
</tbody>
</table>
23  Lithuania (LT)
24  Luxembourg (LU)
25  Latvia (LV)
26  Monaco (MC)
27  Moldova, Republic of (MD)
28  Macedonia, The former Yugoslav Republic of (MK)
29  Malta (MT)
30  Netherlands (NL)
31  Norway (NO)
32  Poland (PL)
33  Portugal (PT)
34  Romania (RO)
35  Sweden (SE)
36  Slovenia (SI)
37  Slovakia (SK)
38  Turkey (TR)
39  United Kingdom (UK)

98  Other specified country of residence
99  Unspecified country of residence
HOSPITAL NUMBER

Required field length:
nnnnnn

Definition:
Number of the hospital where the patient was treated or admitted.

Context:

Guide for use:
The coding form has 6 spaces for coding the hospital number. If your country uses fewer spaces than 6, fill in the extra spaces with zeros in front of the number.

Example:
Hospital number 1234 should be coded as 001234
CASE NUMBER

Required field length:
nnnnnnnnnnn

Definition:
Number of the emergency department case or record.

Context:

Guide for use:
The coding form has 10 spaces for coding the emergency department case or record number. If your setting uses fewer spaces for its case numbers, fill the extra spaces with zeros in front of the number.

Example:
Case number 1234567 should be coded as 0001234567.

Do code the letters (if any) which appear in your hospital’s case number. Delete any spaces that appear between the letters and numbers.

Example:
Case number AW 12345 should be coded as 000AW12345.
SEX OF PATIENT

Required field length:
n
Definition:
Person’s sex at the time of the injury.

Context:

Guide for use:
Code this data element for all injuries.

SEX OF PATIENT: OVERVIEW OF CODES

1  Male
2  Female
3  Unknown
DATE OF BIRTH

Required field length:
nnnnnnnn

Definition:
Date on which the injured person was born.

Context:
This data element provides information about the date of birth of the injured person.

Guide for use:
The coding form has 8 spaces for coding date of birth. Use 4 digits for the year, and 2 digits for month, and day of the month. For the year use all numbers of the given year, e.g. for 1996 code 1996, for 1997 code 1997. For the month code the usual number with a zero in front of the numbers under 10. Days of the month from 1 to 9 also have a zero in front.

Examples:
January 11, 1996 should be coded as 19960111
June 13, 1997 should be coded as 19970613
December 15, 1995 should be coded as 19951215
DATE OF INJURY

Required field length:
nnnnnnnnn

Definition:
The date the injury was sustained.

Context:
This data element is necessary for the selection and comparison of cases within a certain period of time.

Guide for use:
The coding form has 8 spaces for coding date of injury. Use 4 digits for the year, and 2 digits for month, and day of the month. For the year use all numbers of the given year, e.g. for 1996 code 1996, for 1997 code 1997. For the month code the usual number with a zero in front of the numbers under 10. Days of the month from 1 to 9 also have a zero in front.
If the date is unknown fill in with 99999999.

Examples:
January 11, 1996 should be coded as 19960111
June 13, 1997 should be coded as 19970613
December 15, 1995 should be coded as 19951215
TIME OF INJURY

Required field length:
nn

Definition:
The time the injury was sustained.

Context:
This data element is necessary for the selection and comparison of cases within a certain period of the day.

Guide for use:
The coding form has 2 spaces for coding time of injury. You should code here the time of injury using the 24 hour clock. The minutes can be ignored. If the time of injury is unknown fill in with 99.

Examples:
For any time from 15.00 to 15.59 code 15
For any time from 08.00 to 08.59 code 08
For any time from midnight to 00.59 code 00
DATE OF DISCHARGE

Required field length:
nnnnnnnnn

Definition:
The date on which the injured person is discharged of the emergency department.

Context:

Guide for use:
The coding form has 8 spaces for coding date of discharge. Use 4 digits for the year, and 2 digits for month, and day of the month. For the year use all numbers of the given year, e.g. for 1996 code 1996, for 1997 code 1997. For the month code the usual number with a zero in front of the numbers under 10. Days of the month from 1 to 9 also have a zero in front. (EHLASS)

Examples:
January 11, 1996 should be coded as 19960111
June 13, 1997 should be coded as 19970613
December 15, 1995 should be coded as 19951215
TREATMENT AND FOLLOW UP

Required field length:
n
Definition:
Status of treatment after attendance at emergency department.

Context:
The purpose of this data element is to give a simple indication of severity and therefore an
indication of the burden of injuries.

Guide for use:
### TREATMENT AND FOLLOW UP: OVERVIEW OF CODES

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Examined and sent home without treatment</td>
</tr>
<tr>
<td>2</td>
<td>Sent home after treatment</td>
</tr>
<tr>
<td>3</td>
<td>Treated and referred for further treatment by general practitioner</td>
</tr>
<tr>
<td>4</td>
<td>Treated and referred for further treatment as an outpatient</td>
</tr>
<tr>
<td>5</td>
<td>Treated and admitted to this hospital</td>
</tr>
<tr>
<td>6</td>
<td>Transferred to another hospital</td>
</tr>
<tr>
<td>7</td>
<td>Deceased</td>
</tr>
<tr>
<td>8</td>
<td>Other</td>
</tr>
<tr>
<td>9</td>
<td>Unknown</td>
</tr>
</tbody>
</table>
INTENT

Required field length:

n.n

Definition:
The role of human purpose in the *injury event*.

Context:
Intent data provide information about the role of human intent in the occurrence of an *injury*. This information can affect patient care and guide efforts to prevent *injury recurrence*. For example, the clinical and preventive approach to a person presenting with an *injury* is likely to differ according to whether the *injury* is thought to be intentional or unintentional, and whether it is self-inflicted or inflicted by another.

Personal, social, and legal sensitivities often apply to intentional *injuries*, where every effort must be made to ensure the safety of injured persons. For these and other conceptual reasons, determination of the intent of *injury* cases is often difficult.

Guide for use:
In general, intent is primarily determined by the incident and not by the resulting *injury*.

To code Intent:
Select the code that best describes the intent of the *injury event*.
Code *injuries* sustained by a bystander to a violent incident, or by a non-combatant in a conflict, as *assault*.
Code *injuries* resulting from animal attacks as unintentional, unless the animal was used as a weapon by a person intent on inflicting *injury*.
Consider *injuries* to children under age five years who harm themselves to be unintentional, except in the case of an individual who bangs his or her head in anger or frustration.

Notes:
The Intent data element includes the category *Complications of medical or surgical care* to maintain correspondence with *ICD-10 External cause* (Chapter XX).
## INTENT: FULL LIST OF CODES WITH INCLUSION AND EXCLUSION CRITERIA

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong></td>
<td><strong>Unintentional</strong></td>
</tr>
<tr>
<td></td>
<td>Includes:</td>
</tr>
<tr>
<td></td>
<td>accidental injury event</td>
</tr>
<tr>
<td><strong>2</strong></td>
<td><strong>Intentional self-harm</strong></td>
</tr>
<tr>
<td></td>
<td>Includes:</td>
</tr>
<tr>
<td></td>
<td>complete suicide attempt</td>
</tr>
<tr>
<td></td>
<td>Relevant data elements in Violence Module:</td>
</tr>
<tr>
<td></td>
<td>Proximal risk factors for Intentional self-harm</td>
</tr>
<tr>
<td></td>
<td>Previous suicide attempt</td>
</tr>
<tr>
<td><strong>3</strong></td>
<td><strong>Assault</strong></td>
</tr>
<tr>
<td></td>
<td>Excludes:</td>
</tr>
<tr>
<td></td>
<td>legal intervention (4.1)</td>
</tr>
<tr>
<td></td>
<td>operation of war or civil conflict (4.2)</td>
</tr>
<tr>
<td></td>
<td>Relevant data elements in Violence Module:</td>
</tr>
<tr>
<td></td>
<td>Perpetrator/victim relationship</td>
</tr>
<tr>
<td></td>
<td>Sex of perpetrator</td>
</tr>
<tr>
<td></td>
<td>Context of Assault</td>
</tr>
<tr>
<td><strong>4</strong></td>
<td><strong>Other violence</strong></td>
</tr>
<tr>
<td></td>
<td><strong>4.1</strong> Legal intervention</td>
</tr>
<tr>
<td></td>
<td>Includes:</td>
</tr>
<tr>
<td></td>
<td>injury inflicted by law enforcement agent during legal action</td>
</tr>
<tr>
<td></td>
<td>injury inflicted by state agency during attempts to enforce the law</td>
</tr>
<tr>
<td></td>
<td>execution or injury performed at the behest of judiciary or ruling authority</td>
</tr>
<tr>
<td></td>
<td>Excludes:</td>
</tr>
<tr>
<td></td>
<td>citizen arrest (3)</td>
</tr>
<tr>
<td></td>
<td>Relevant data element in Violence Module:</td>
</tr>
<tr>
<td></td>
<td>Type of legal intervention</td>
</tr>
</tbody>
</table>
### 4.2 Operations of war or civil conflict

Relevant data element in Violence Module:

*Type of conflict*

|   |  
|---|---|
| **5** | Undetermined intent |
| **6** | Complications of medical or surgical care |
|     | NOTE: As defined in the *ICD-10 External cause* (Chapter XX) |
| **8** | Other specified intent |
|     | Includes:  
|     | euthanasia |
| **9** | Unspecified intent |
|     | Includes:  
|     | injury resulting from unknown incident |
PLACE OF OCCURRENCE

Required field length:
nn.n

Definition:
Where the injured person was when the injury event started.

Context:
Place of Occurrence data help group injuries by areas of responsibility and may help injury prevention practitioners better target interventions and use resources more effectively. This information can also provide insight into injury aetiology. To most accurately identify the sector of responsibility for injury prevention, combine Place of Occurrence data with Activity when injured data.

Guide for use:
NOTE: The codes represent where the injured person was when the injury event began, not when the injury event ended.

To code Place of Occurrence:
Select the place where things started to go wrong. Choose a category referring to the whole entity (i.e., a structure or space owned or operated as a whole) within which an injury occurred, rather than a category referring to only a part of such an entity. For example, if an injury occurs while being in a swimming pool in a holiday park; code Place of Occurrence as Holiday park (10.5), rather than Swimming pool (5.3).

If more than one injury is involved, select the place associated with the more severe injury. If the injuries are equally severe, select the place of occurrence that appears first in the code list.

In general, places include attached grounds, outbuildings, etc. For example, Home (1) includes the dwelling and any associated garden, garage, shed, etc. Likewise, Factory/plant (8.3) includes buildings and premises like roadways, parking areas, and industrial yards. Any exceptions to this rule are specified by inclusions and exclusions for given codes.
PLACE OF OCCURRENCE: FULL LIST OF CODES WITH INCLUSION AND EXCLUSION CRITERIA

1 **Home**

NOTE: Refers to building and adjacent grounds.
Includes:
- house, apartment
- farmhouse
- weekend cottage
- residential caravan (trailer), tent, hut, lean-to
- boarding house
- garage
- home garden or yard
- home driveway, within property boundary line or home driveway nos
- home playground
- swimming pool in/around home
- transport vehicle used as residence (eg., houseboat, motorhome, mobile home)
- common area (eg., elevator, lobby, corridor, stairwell) of multi-residence building
- occupied house under construction/renovation
- residence of foster children in home environment
- parts of home used for home office
- cottage industry
- any place where plants and/or animals are grown primarily for personal use by a farmer/rancher and his or her family

Excludes:
- residential institution (2), eg., nursing home (2.2), prison (2.3)
- home under construction but not yet occupied (8.1)
- abandoned or derelict house (8.2)
- home driveway, beyond property boundary line (6.2)

1.1 **Kitchen**

1.2 **Living room, bedroom**
Includes:
- hall, lobby, dining room, lounge, study

1.3 **Bathroom, washroom**
Includes:
- bath, toilet, shower, sauna, laundry room, scullery

1.4 **Stairs, indoors**
Includes:
- landing

1.5 **Residence indoors, other**
Includes:
- basement, cellar, loft, porch, passage, corridor, lift

1.6 **Residence outdoors**
Includes:
balcony, frontage, roof outdoor staircase, landing

1.7 **Playground in residential area**
   Includes:
   playground with play equipment in area for this purpose within residential area
   Excludes:
   playground in school/institutional area (XX)
   playground in park area (XX)

1.8 **Garden**
   Includes:
terrace, garden path, swimming pool, outhouse, toolshed

1.9 **Private driveway, parking area, garage, carport, path, walking area**
   Includes:
yard and courtyard
   Excludes:
   path and walking area in park area
   path and walking area in the open country otherwise
   path and walking/driving area accessible to the public

1.98 **Residential area, other specified**
   Includes:
   stairs, unspecified

1.99 **Residential area, unspecified**

---

**2 Residential institution area**

NOTE: Refers to building and adjacent grounds.
Includes:
sports and athletics area at residential institution

2.1 **Home for the elderly**
   Includes:
   institution in which generally healthy old people live and are cared for
   old people’s home
   pensioners’ home
   Excludes:
   nursing home (2.2)

2.2 **Nursing home**
   Includes:
   residential facility for people who cannot take care of themselves because of
   permanent or long-term physical or mental illness or handicap and who
   require care by nurses or other care professionals
   institution where people recover from illness or injury (ie., convalescent home,
   home for the sick)
   Excludes:
   old people’s home (2.1)
   pensioners’ home (2.1)
2.3 **Prison**
Includes:
- jail
- reformatory, reform school
- correctional institution
- police cell
- military prison
Excludes:
other areas of police station not specifically designed for the detention of prisoners
or suspects eg. Interview room (10.4)

2.4 **Shelter for battered women**
Includes:
- women's refuge

2.5 **Military institution**
Includes:
- military camp
- military base
- military training area/ground
Excludes:
military prison (2.3)
military hospital (3.1)
training facilities that are independently recognised as educational institutions (4.1)

2.8 **Other specified residential institution area**
Includes:
children's home
orphanage
dormitory
hospice

2.9 **Unspecified residential institution area**

3 **Medical service area**

NOTE: Refers to building and adjacent grounds.

Excludes:
residential institution (2)
building under construction (8.1)

3.1 **Hospital**
Excludes:
hospice (2.8)
nursing home (2.2)

3.2 **Outpatient clinic, health centre**
Includes:
- community health centre
- mobile blood bank

3.3 **Health professional's office**
Includes:
consultation room
examination room
Excludes:
office as part of hospital or clinic (3.1 or 3.2)

3.8 Other specified medical service area
3.9 Unspecified medical service area

4 School, educational area

NOTE: Refers to building and adjacent grounds

Excludes:
school dormitory (2.8)
building under construction (8.1)

4.1 School, university
Includes:
college
institute for higher education
military school
private, public, or state school
schoolyard, campus
Excludes:
reform school (2.3)
sports and athletics area (4.3)
playground (4.4)
preschool (4.2)

4.2 Day care, kindergarten
Includes:
day nursery
crèche
after school care
place where young children are cared for (usually while their parents are at work)
preschool
Excludes:
sports and athletics area (4.3)
playground (4.4)

4.3 Sports and athletics area at school, educational area
4.4 Playground at school, educational area
4.8 Other specified school, educational area
4.9 Unspecified school, educational area

5 Sports and athletics area

NOTE: Refers to building and adjacent grounds.
Excludes:
swimming pool, tennis court in private home or garden (1)
sports and athletics area at residential institution area (eg., workout room in prison, 2.3)
sports and athletics area at school, educational area (4.3)
sports and athletics area at recreational, cultural area, or public building (eg., swimming pool in holiday park, 10.5)
sports and athletics area at commercial area (eg. swimming pool in hotel, 11.4)

5.1 Sporting grounds (outdoor)
Includes:
baseball field
basketball court
cricket ground
football field
golf course
hockey field
outdoor tennis court
running track
stadium (with retractable roof)

5.2 Sporting hall (indoor)
Includes:
tennis hall
fitness centre
gymnasium
squash court
Excludes:
stadium with retractable roof (5.1)

5.3 Public swimming centre

5.4 Racetrack, racecourse
Includes:
motorcycle track
car racing track
coursing track
dog tract
horse track
bicycle track

5.5 Equestrian facility
Includes:
pony club
riding school
Excludes:
private equestrian area such as an equestrian area set up on a farm (9n)
show ring (10.3)

5.6 Skating rink, ice palace
Includes:
skate park
skate arena
roller rink
roller-skating park

Excludes:
frozen lake (12.1)
roller skating outside of dedicated area, eg roller skating on roadway (6.1) or on pavement (6.2)

5.7 Skiing or snowboarding area
NOTE: Refers only to areas specifically designated for snow skiing and snowboarding. Snow skiing and snowboarding outside of designated areas should be coded to the place where set up, eg., farm (9n), shopping mall (11.1), indoor sports arena (5.2).
Includes:
ski run
ski jump
ski facilities
Excludes:
artificial demonstration ski slope (code to place where set up)
water skiing area (code to appropriate body of water)

5.8 Other specified sports and athletics area
5.9 Unspecified sports and athletics area

6 Transport area: public highway, street or road

Includes:
highway, street or road specified as public
highway, street or road not specified as public
Excludes:
highway, street or road specified as private (eg., private factory road, 8.3)

6.1 Motorway
Includes:
freeway
motorway
street parking

6.2 Public road outside urban area
Includes:
intersection between railroad/tram rails and road
Excludes:
motorway (6.1)

6.3 Public road inside urban area
Includes:
intersection between railroad/tram rails and road
Excludes:
motorway (6.1)

6.4 Sidewalk
Includes:
designated walkway  
footpath next to road  
home driveway beyond property boundary line pavement
Excludes:  
home driveway within property boundary line or home driveway nos (1) pedestrian mall (7.8)

6.5 Cycleway  
Includes:  
cycle path next to road

6.8 Other specified public highway
6.9 Unspecified public highway

7 Transport area: other

Includes:
other transport area specified as public
other transport area not specified as public
Excludes:
other transport area specified as private (eg., private factory parking area, 8.3)

7.1 Parking area
Includes:
parking lot
commercial parking garage
Excludes:
street parking

7.2 Public transport area/facility
Includes:
bus terminal
underground station
railway station
airport terminal
ferry terminal

7.8 Other specified transport area: other
Includes:
pedestrian mall
public square
railway line

7.9 Unspecified transport area: other

8 Industrial or construction area

NOTE: Refers to building and adjacent grounds.

8.1 Building under construction
Includes:
home under construction but not yet occupied
8.2 Demolition site
Includes:
derelict building/house

8.3 Warehouse

8.4 Factory/plant
Includes:
building and premises (e.g., roadway, parking area, industrial yard)
gasworks
workshop
small scale industry
Excludes:
cottage industry (1)
home industry (1)

8.5 Mine and quarry
Includes:
underground mine
quarry
coal pit
gravel and sand pit

8.6 Oil or gas extraction
Includes:
off-shore installation
oil rig

8.7 Shipyard
Includes:
dockyard
dry dock
slipyard
Excludes:
harbour used for commercial maritime activity – refer also to note at 98 (8.8)
harbour used as non-commercial area (98)
port (8.8)

8.8 Power station
Includes:
coal power station
nuclear power station
hydro power station
oil power station

8.98 Other specified industrial or construction area
NOTE: The term ‘harbour’ is commonly used to describe both the body of water and an area utilised for commercial maritime activities. The place of occurrence described as ‘harbour’ and which otherwise qualifies as a place for commercial maritime activity should be coded here. ‘Harbour’ used as a non-commercial area and ‘harbour nos’ should be coded to 98.
Includes:
coal/container terminal
harbour used for commercial maritime activity
port
tunnel under construction
Excludes:
harbour used as non-commercial area (98)
sewer system (98)
ship yard (8.6)

8.99 Unspecified industrial or construction area

9 Farm or other place of primary production

NOTE 1: Refers to any place of primary production that produces at least one of the following intended for sale: crops, vegetables, horticultural specialities and nursery products, trees, fruit, nuts, animals, and animal products.

NOTE 2: Refers to building and adjacent grounds.

Includes:
- ranch
- small farm
- farm equipment buildings
- barn
- land under cultivation
- field
- private farm road

Excludes:
- farmhouse, yard, and other home premises of farm (1)
- any place where plants and/or animals are grown primarily for personal use by a farmer/rancher and his or her family (1)
- farm or agricultural based tourist park (10.2)

9.1 Growing of crops, market gardening, horticulture

Includes:
- beverage crops
- cereal grains
- cotton
- flowers
- fruit
- horticultural specialities and nursery products
- maple syrup products
- mushrooms
- nuts
- rubber
- spice crops
- sugar beets, sugar cane
- tobacco
- trees (eg., Christmas trees)
- vegetables
Excludes:
forestry, growing standing timber (usually 12.6)
logging, felling timber, and producing wood (usually 12.6)
area growing crops and with grazing animals (9.3)
mixed farming (9.3)

9.2 Farming of animals
Includes:
animal products (eg., eggs, honey)
beef cattle
dairy farming (eg., milk)
deer
horses, asses, mules, hinnies
pigs, swine
poultry
semi-domesticated or wild live animals (eg., birds, rabbits)
sheep, goats
Excludes:
fish (usually 12)

9.3 Growing of crops combined with farming of animals (mixed farming)

9.8 Other specified farm or other place of primary production

9.9 Unspecified farm or other place of primary production

10 Recreational area, cultural area, or public building

NOTE: Refers to buildings and adjacent grounds.

Includes:
sports and athletics area at recreation area, cultural area or public building

10.1 Public playground
Excludes:
playground at home (1)
playground at school, educational area (4.4)

10.2 Amusement park, theme park
Includes:
Tivoli
circus
fair
zoo
luna park
tourist farm
agricultural theme park

10.3 Public park
Includes:
botanical gardens
recreation reserve
picnic area
public square
showground
Excludes:
large national parks (12)

10.4 Public building, non-cultural
Includes:
courthouse
police station
public hall
town hall
Excludes:
police cell (2.3)

10.5 Holiday park, campground
Includes:
camp site, recreational caravan site
swimming pool

10.6 Public religious place
Includes:
cathedral
church
temple
parish hall
mosque
synagogue

10.8 Other specified recreational, cultural area, or public building
Includes:
museum
gallery
library
music hall, opera house
cinema, movie house
theatre
youth centre

10.9 Unspecified recreational, cultural area, or public building

11 Commercial area (non-recreational)

NOTE: Refers to building and adjacent grounds.
Includes:
sports and athletics area at commercial area (non-recreational)

11.1 Shop, store
Includes:
shopping mall
supermarket
market and market stall
bank
post office
11.2 Commercial garage
   Includes:
   gas station, petrol station
   service station
   Excludes:
   garage of private home (1)
   commercial parking garage (7.1)

11.3 Office building
   Includes:
   office
   Excludes:
   health professional’s office (3.3)

11.4 Hotel, motel
11.5 Restaurant, cafetaria, pub
   Includes:
   inn
   bar
   bodega

11.6 Discotheque, jazz club, dance hall
11.8 Other specified commercial area (non-recreational)
   Includes:
   radio/TV station

11.9 Unspecified commercial area (non-recreational)

12 Countryside

   NOTE: Refers to open nature area not classified elsewhere.

12.1 Area of still water
   Includes:
   pond
   pool
   natural ice
   farm dam
   Excludes:
   beach, shore, bank (12.5)
   public dam (12.3)
   reservoir (12.3)

12.2 Stream of water
   Includes:
   river
   rivulet
   stream
   brook
   trickle
   canal
   creek
flooded area
natural ice
Excludes:
beach, shore, bank (12.5)

12.3 **Large area of water**
Includes:
lake
sea
ocean
bay
natural ice
dam
estuary
reservoir
Excludes:
beach, shore, bank (12.5)
farm dam (12.1)
harbour used for commercial maritime activities (8.8)
harbour used as a non-commercial area, harbour nos (98)
port (8.8)

12.4 **Marsh, swamp**
Excludes:
beach, shore, bank (12.5)

12.5 **Beach, shore, bank of a body of water**
Includes:
foreshore

12.6 **Forest**
Includes:
paths
tracks
hiking trails

12.7 **Desert**
Includes:
paths
tracks
hiking trails

12.8 **Other specified countryside**
Includes:
prairie
mountain (if not forest)
cave

12.9 **Unspecified countryside**
<table>
<thead>
<tr>
<th>Code</th>
<th>Place of Occurrence</th>
</tr>
</thead>
<tbody>
<tr>
<td>98</td>
<td><strong>Other specified place of occurrence</strong></td>
</tr>
<tr>
<td></td>
<td>NOTE: Refers to buildings and adjacent grounds.</td>
</tr>
<tr>
<td></td>
<td>NOTE: The term ‘harbour’ is commonly used to describe both the body of water and an area utilised for commercial maritime activities. The place of occurrence described as ‘harbour’ and which otherwise qualifies as a place for commercial maritime activity should be coded to 8.8. ‘Harbour’ used as a non-commercial area and ‘harbour nos’ should be coded here.</td>
</tr>
<tr>
<td></td>
<td>Includes:</td>
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<td>harbour used as a non-commercial area, harbour nos</td>
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<td>sewer system</td>
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<td>harbour used for commercial maritime activities (8.8)</td>
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<tr>
<td>99</td>
<td><strong>Unspecified place of occurrence</strong></td>
</tr>
</tbody>
</table>
MECHANISM OF INJURY

Required field length:
nn.nn

Definition:
The way in which the injury was sustained (i.e., how the person was hurt).

Context:
Physical injury results when human tissue is acutely exposed to some form of energy and sustains some form of damage. An injury may also result from an insufficiency of any of the vital elements (e.g., in drowning/near drowning, strangulation, or freezing). The process by which injury occurs may be described as the “mechanism of injury.”

Guide for use:
Injuries are often the result of a sequence of events. Different types of mechanisms are usually involved in the injury.

Underlying mechanisms—those involved at the start of the injury event
Direct mechanisms—those producing the actual physical harm
Intermediate mechanisms—others mechanisms involved in the injury event.

The direct and underlying mechanisms may be the same. For example, if a person cuts his or her finger with a knife while preparing food, the cutting of the finger is both the direct and underlying mechanism. Coding mechanism of injury in these situations is straightforward. Other situations are more complex. For example, if a woman trips over an appliance cord and hits her head on a counter, the tripping over the cord is the underlying mechanism (the action that starts the injury event), and the contact with the counter is the direct mechanism (the action that causes the actual physical harm).

Because injury events often involve more than one mechanism, and because the sequence of events leading to an injury is not always clear, identifying the underlying mechanism of injury may be difficult. Moreover, information available in case notes does not always allow for distinguishing between types of mechanisms.
Mechanism of Injury has three levels of codes, with the third level being the most detailed.

To code Mechanism of Injury:
Code up to two mechanisms of injury using the most detailed level of coding possible. If it is possible to distinguish between types of mechanisms, code the underlying mechanism first, followed by the direct mechanism.
If more than one underlying mechanism is involved, select the underlying and direct mechanisms that resulted in the more severe injury.
If the injuries are equally severe, select the underlying and direct mechanisms of the injury that appears first in the case information.
If it is not possible to distinguish between types of mechanisms, code up to two mechanisms in the sequence they appear in the case information.

Notes:
Gaps exist in the sequence of codes. These gaps allow for the addition of codes between major version changes.
1  **Blunt force**

1.1  **Transport injury event**
Includes:
crashes and other injurious events occurring in the course of transportation
injury resulting from events involving a device being used primarily for
conveying persons or goods from one place to another

Relevant data elements in Transport Module:
*Mode of transport*

**NOTE 1:** Injuries sustained in vehicle crashes may involve various
mechanisms, typically blunt injury. When a data collection system only allows
for one mechanism to be coded for a specific case, use codes from section 1.1.
When the system allows for more than one mechanism to be coded, use
codes from section 1.1, as well as codes from any other category.

**NOTE 2:** The inclusion criterion differs from the ICD-10 criterion by excluding
injury from vehicles not associated with their transport function.

1.11  **Vehicle occupant**
Defined as 1.1 and *Mode of transport* = 4 or 5

1.12  **Pedestrian**
Defined as 1.1 and *Mode of transport* = 1

1.13  **Pedal cyclist**
Defined as *Mode of transport* = 2

1.14  **Motorcyclist/motorcycle rider**
Defined as 1.1 and *Mode of transport* = 3

1.18  **Other specified transport injury event**
Defined as remainder of 1.1

1.19  **Unspecified transport injury event**
Includes:
cases in which it is unknown whether the injured person was a
*vehicle occupant, pedestrian, pedal cyclist, or motorcycle rider*

Excludes:
other specified transport *injuries* (1.18)
1.2 Contact with object or animal
Excludes:
being bitten by animal (2.32 - 2.35)
being scratched/clawed by animal (2.12)
contact with machinery (3.2)
contact with person (1.3n)
pinching, crushing between objects (1.41)

1.21 Contacting moving object
Includes:
- hit or struck by sports equipment (e.g., hockey stick) or a blunt weapon (e.g., cudgel)
Excludes:
- person moving in front of a moving object (1.24)
- continuous movement against skin (1.6)
- being shot with a firearm (2.22) or by arrow/bolt (2.23)

1.22 Contacting static object
Includes:
- walking into a wall
Excludes:
- walking into a wall and being injured by falling down (1.53)

1.23 Struck by thrown or falling object
Includes:
- falling rock, stone, or tree
cave-in
collapse of a building other than by fire
being struck by a thrown ball while standing still
Excludes:
- being shot by a firearm (2.22) or other weapon (2.23)
collapse of a burning building (4.14)
continuous movement against skin (1.6)

1.24 Struck by moving object before which person moved/was moved
Includes:
- person moving in front of a moving object (e.g., someone being hit by a ball as they moved to try and catch it)
Excludes:
- transport injuries (1.1)
- person not moving, but hit/striken by a moving object (1.21) or by a thrown object (1.23)
- being shot by a firearm (2.22) or other weapon (2.23)

1.25 Contacting animal: non-piercing or non-penetrating
Includes:
- person struck or kicked by animal
Excludes:
being bitten (2.32, 2.33), stung (2.34, 2.35), or scratched/clawed by an animal (2.12)

1.28 Other specified contact with object or animal

1.29 Unspecified contact with object or animal

1.3 Contact with person

Includes:
application of bodily force

Excludes:
being pushed by a person (1.5n)
crushing between individual persons (1.42)

1.31 Struck or kicked by a person

Includes:
hit (with fist), struck, kicked, shaken, scratched, butted with head, or twisted by another person – whether intentional or not (e.g., during horse play)
force applied by self (e.g., hitting one’s own head with one’s fist)

Excludes:
being struck by objects (1.2n)
being hit by a falling person (1.23)
Being kicked by an animal (1.25)

1.32 Sexual assault by bodily force

Includes:
rape, attempted rape
sodomy, attempted sodomy

Excludes:
anal or vaginal penetration with or by an object (98.15)

1.38 Other specified contact with a person

Excludes:
fall due to collision of a pedestrian with another pedestrian (1.53)

1.39 Unspecified contact with a person

1.4 Crushing

Excludes:
crushing caused by machinery (3.2)

1.41 Pinching, crushing between objects

Includes:

crushed beneath an object
caught or jammed between moving and stationary objects (e.g., getting one’s hand caught in a car door)

Excludes:
injury caused by being struck by a thrown or falling object (1.23)
transport injuries (1.1n)

1.42 Crushing between individual persons

Includes:
crushed by a crowd or stampede
1.48 Other specified crushing
1.49 Unspecified crushing

1.5 **Falling, stumbling, jumping, pushed**
Includes:
being pushed by a person
falling while being carried (i.e., being dropped)
tripping

1.51 **Falling/stumbling by tripping on same level**
Excludes:
falling from bumping against an object (1.53)
spraining ankle when walking and not falling (i.e., over-exertion, 7.1)

1.52 **Falling/stumbling by slipping on same level**
Excludes:
falling from bumping against an object (1.53)

1.53 **Other falling/stumbling/jumping/pushed on the same level**
Includes:
falling from bumping against an object
Excludes:
crushed or pushed by a crowd or stampede (1.42)

1.54 **Falling/stumbling/jumping/pushed from a height less than 1 meter**
Includes:
striking or hitting an object when jumping or diving
falling from a child-size pedal cycle

1.55 **Falling/stumbling/jumping/pushed from a height 1 meter or more**
Includes:
striking or hitting an object when jumping or diving
falling from an adult-size pedal cycle
falling while being carried by a normal-sized adult
falling from a horse
falling from a building or structure
Excludes:
collapse of a non-burning building or structure (1.23)

1.56 **Falling/stumbling/jumping/pushed from an unspecified height**

1.57 **Falling/stumbling/jumping/pushed on stairs/steps**
Excludes:
free fall from stairs 1 metre or more (1.55)

1.58 **Other specified falling/stumbling/jumping/pushed**
Excludes:
collapse of a non-burning building or structure (1.23)

1.59 **Unspecified falling/stumbling/jumping/pushed**

1.6 **Abrading, rubbing**
Excludes:
1.8 Other specified contact with blunt force

1.9 Unspecified contact with blunt force

2 Piercing/penetrating force

2.1 Scratching, cutting, tearing, severing
   Excludes:
   cutting or puncturing during surgical or medical care (20.5)
   cutting or puncturing due to explosion (3.1), firearm discharge (2.22), BB or pellet gunshot (2.23), or other weapon (2.24)

2.11 Scratched or clawed by a person
   Excludes:
   human bite (2.31)

2.12 Scratched or clawed by an animal
   Excludes:
   being bitten by an animal (2.32, 2.33)

2.13 Cut, slice, slash
   Includes:
   being cut with a knife (e.g., cutting one’s finger with a knife)
   Excludes:
   being scratched/clawed by an animal (2.12) or a person (2.11)
   being bitten by an animal (2.32, 2.33) or a person (2.31)
   being cut, sliced, or slashed by machinery (3.2)
   being stabbed (2.21)

2.14 Tear, rip, saw
   Excludes:
   having a body part ripped/torn by machinery (3.2)
   tearing a ligament due to tripping, slipping, or over-exertion (7.n)

2.15 Sever, hack off
   Includes:
   severing a body part with an axe, panga, machete, or cutlass

2.2 Puncturing, stabbing
   Includes:
   being shot by a firearm or other weapon
   Excludes:
   cutting or puncturing during surgical or medical care (20.5)
   cutting or puncturing due to explosion (3.1)

2.21 Stabbed
   Includes:
   cases where the skin was cut and where there was deep penetration of underlying tissue
   stabbed with a knife, sword or other sharp-edged instrument
   Penetration of the skin by foreign body (splinter, chip of metal,
projectile, wood, etc.)
Excludes:
cutting, tearing (2.1n)
shot by firearm (2.22)

2.22 Shot by firearm
Includes:
struck by a bullet or other projectile from a gun using a powder or explosive charge
Excludes:
struck by a projectile from a BB or pellet gun (2.23)
struck by an arrow from bow or bolt/arrow from crossbow, spring-actuated weapon (2.24)
non-shooting injury by a firearm (e.g., struck by gun, 1.21)

2.23 Shot by BB or pellet gun

2.24 Shot by other weapon
Includes:
arrown from bow and bolt/arrow from crossbow
shot nos
slug from a spring-actuated weapon

2.28 Other specified puncturing
Excludes:
shot nec (2.24)

2.29 Unspecified puncturing

2.3 Biting, stinging, invenomating

2.31 Bitten by person
Includes:
being bitten by oneself (e.g., biting one's own tongue)
cases where the bite does not break the skin
Excludes:
being bitten by an animal or insect (2.32–2.35)

2.32 Bitten by non-venomous animal
Includes:
being bitten by a horse, dog, shark, etc.
Excludes:
human bite
a bite that has become infected – not an injury

2.33 Bitten by venomous animal
Includes:
being bitten by a venomous snake

2.34 Bitten or stung by non-venomous insect or other invertebrate
Includes:
being bitten by a non-venomous spider
being stung by a mosquito
Excludes:
a sting that has become infected – not an injury
2.35 Bitten or stung by venomous insect or other invertebrate
   Includes:
   being stung by a bee, wasp, or scorpion
   being bitten by a venomous spider
   being stung by a jellyfish
   anaphylactic shock following a bee sting, etc.

2.38 Other specified biting, stinging, invenomating

2.39 Unspecified biting, stinging, invenomating
   Includes:
   biting/stinging where unknown whether or not animal/insect was poisonous

2.8 Other specified piercing/penetrating force

2.9 Unspecified piercing/penetrating force

3 Other mechanical force

3.1 Struck by explosive blast
   Includes:
   air pressure caused by a blast
   objects/debris projected by a blast
   Excludes:
   flames following a blast (4.14) or volcanic eruption (8.4)

3.2 Contact with machinery
   Includes:
   contact with a chain hoist, drive belt, pulley, transmission belt, winch, etc.
   contact with a powered lawnmower, chainsaw, hedge-trimmer
   contact with a blender, powered knife, sewing machine, spin drier, washing machine
   contact with an animal-powered farm machine, harvester, reaper, thresher
   contact with recreational machinery, machinery nec
   Excludes:
   exposure to electric current (98.2)
   contact with (agricultural) machinery while in transport under own power or while being towed (1.1)

3.8 Other specified mechanical force

3.9 Unspecified mechanical force

4 Thermal mechanism

4.1 Heating
   4.11 Contact with hot liquid
Includes:
hot water in a bath, bucket, or tub
hot water running out of a hose or tap
water/liquids heated on a stove
contact with molten metal
Excludes:
molten lava (8.4)
burning liquid (4.14)

4.12 Contact with hot steam, other gas
Includes:
inhalation of hot air and gases
Excludes:
smoke inhalation (4.17)

4.13 Contact with hot object or solid substance
Includes:
contact with a hot household appliance (e.g., cooker, kettle, stove, iron, etc.)
contact with a hot heating appliance (e.g., radiator, heater, etc.)
contact with a hot engine, tool, or machinery
contact with an object that is not normally hot, but is made hot (e.g., by a house fire, by prolonged sun exposure)
Excludes:
burning object or solid substance (i.e., an object on fire, 4.14)

4.14 Contact with fire or flame
Includes:
forest fire, campfire, fire in a fireplace or stove, fire in a burning building
ignition of highly flammable material (e.g., gasoline, kerosene, petrol)
ignition or melting of clothing (e.g., nightwear)
fire caused by lightning
fire caused by/following explosion
Excludes:
volcanic fires (8.4)

4.15 Heating, whole body: natural source
Includes:
heat stroke, sunstroke

4.16 Heating, whole body: man-made
Includes:
being confined in room (over)heated by artificial means

4.17 Inhalation of smoke from burning object/substance

4.18 Other specified heating

4.19 Unspecified heating

4.2 Cooling

4.21 Cooling: natural source
Includes:
frostbite, hypothermia due to natural cold
exposure to cold due to weather conditions
Excludes:
contact with or inhalation of dry ice, liquefied gas (4.22)

4.22 Cooling: man-made source
Includes:
contact with or inhalation of dry ice, liquid air, nitrogen, or hydrogen
prolonged exposure to deep freeze unit

4.28 Other specified cooling
4.29 Unspecified cooling

4.8 Other specified thermal mechanism

4.9 Unspecified thermal mechanism

5 Threat to breathing

5.1 Mechanical threat to breathing
5.11 Hanging
5.12 Strangling
5.13 External compression of airway, chest
Includes:
effect of cave-in

5.14 Obstruction of airway by inhaled object/substance
Includes:
choking on food, a toy, etc.
Excludes:
carbon monoxide poisoning (6.13)

5.15 Obstruction of airway by object covering mouth and nose
Includes:
suffocation by putting a plastic bag over one’s head
suffocation by putting a pillow over one’s face

5.18 Other specified mechanical threat to breathing
5.19 Unspecified mechanical threat to breathing

5.2 Drowning/near drowning
5.21 Drowning/near drowning following fall into water
Includes:
fall into a bucket, bath tub, swimming pool, or natural body of water
fall off a watercraft or part thereof
fall off a dock, pier, jetty

5.22 Drowning/near drowning while in a body of water
Includes:
being in a bucket, bath tub, swimming pool, or natural body of water
_drowning/near drowning_ due to collision with a watercraft or part
thereof while in body of water

5.28 Other specified drowning/near drowning
5.29 Unspecified drowning/near drowning
Includes:
cases where it was unknown whether the injured person fell into a
body of water or was already in a body of water

5.3 Confinement in oxygen-deficient place
Excludes:
gassing with exhaust fumes taking place in a motor vehicle/confined space
(6.13)
confinement in a plastic bag (5.15)
smoke inhalation (4.17)

5.8 Other specified threat to breathing
Excludes:
confinement in a plastic bag (5.15)

5.9 Unspecified threat to breathing

6 Exposure to chemical or other substance
Includes:
accidental drug overdose
poisoning of unspecified intent
intentional poisoning
Excludes:
administration of drugs in therapeutic or prophylactic dosage (20.1n)

6.1 Poisoning by chemical or other substance
6.11 Poisoning by solid substance
Includes:
ingestion of tablets, pills, etc.
Excludes:
substances dissolved in water or alcohol and ingested (6.12)

6.12 Poisoning by liquid substance
Includes:
substances dissolved in water or alcohol and ingested
substances injected intravenously or subcutaneously

6.13 Poisoning by gaseous substance
Includes:
inhaled motor vehicle exhaust gasses
inhaled chemical dust molecules
inhaled aerosol

6.18 Poisoning by other specified chemical or other substance
6.19 Poisoning by unspecified chemical or other substance
6.2 Corrosion by chemical or other substance
Includes:
tissue damage due to chemical effects of a strong acid, alkali, etc.
Excludes:
* rubbing, chafing, abrading* (1.6)
damage due to the temperature of a substance (4.nn)
6.21 Corrosion by solid substance
6.22 Corrosion by liquid substance
6.23 Corrosion by gaseous substance
6.28 Other specified corrosion
6.29 Unspecified corrosion

6.8 Other specified effect of exposure to chemical or other substance
Includes:
exposure NEC to solid, liquid or gaseous substances
non-corroding irritation (e.g., paint in the eyes)

6.9 Unspecified effect of exposure to chemical or other substance
Includes:
exposure NOS to solid, liquid or gaseous substances

7 Physical over-exertion

Includes:
lifting heavy objects or weights
running a marathon
rowing

7.1 Over-exertion by pushing, pulling

7.2 Over-exertion by lifting

7.3 Over-exertion by catching

7.4 Over-exertion by twisting, turning
Includes:
twisting an ankle with fall

7.5 Over-exertion by own accord
Includes:
twisting an ankle without fall

7.8 Other specified physical over-exertion
Includes:
conditions of gradual and/or delayed onset
conditions due to cumulative effects of multiple episodes of activity
<table>
<thead>
<tr>
<th>7.9</th>
<th>Unspecified physical over-exertion</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Exposure to (effect of) weather condition, natural disaster, or force of nature</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>72</th>
<th>Excludes:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>contact with fire or flame (4.14)</td>
</tr>
<tr>
<td>8.1</td>
<td>Exposure to (effect of) precipitation</td>
</tr>
<tr>
<td></td>
<td>Includes:</td>
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<tr>
<td></td>
<td>thunderstorm, sleet or snow storm</td>
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<td>hurricane caused by a storm or torrential rain</td>
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<td>flood caused by a remote or direct storm</td>
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<td>flood arising from a remote or direct storm</td>
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<td>melting snow of cataclysmic nature</td>
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<td>flood caused by collapse of a dam</td>
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<td>Excludes:</td>
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<td>blizzard (8.2)</td>
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<td>8.2</td>
<td>Exposure to (effect of) wind</td>
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<td></td>
<td>blizzard</td>
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<td>8.3</td>
<td>Exposure to (effect of) earth or ocean movement</td>
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<td>Includes:</td>
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<td></td>
<td>underwater earthquake</td>
</tr>
<tr>
<td></td>
<td>tidal wave following an underwater earthquake</td>
</tr>
<tr>
<td></td>
<td>tidal wave caused by a storm</td>
</tr>
<tr>
<td></td>
<td>tidal wave caused by an underwater earthquake</td>
</tr>
<tr>
<td></td>
<td>Excludes:</td>
</tr>
<tr>
<td></td>
<td>volcanoes (8.4)</td>
</tr>
<tr>
<td>8.4</td>
<td>Exposure to (effect of) eruption</td>
</tr>
<tr>
<td></td>
<td>Includes:</td>
</tr>
<tr>
<td></td>
<td>fire/flame caused by lava</td>
</tr>
<tr>
<td></td>
<td>volcanoes</td>
</tr>
<tr>
<td>8.8</td>
<td>Exposure to (effect of) other specified weather condition, natural disaster or force of nature</td>
</tr>
<tr>
<td></td>
<td>Includes:</td>
</tr>
<tr>
<td></td>
<td>Exposure to lightning</td>
</tr>
<tr>
<td></td>
<td>Excludes:</td>
</tr>
<tr>
<td></td>
<td>natural radiation (98.28)</td>
</tr>
<tr>
<td>8.9</td>
<td>Exposure to (effect of) unspecified weather condition, natural disaster or force of nature</td>
</tr>
</tbody>
</table>
Complications of health care

NOTE: These codes are based on ICD-10 (Chapter XX).

20.1 Adverse effects related to drugs, medicaments, or biological substances

20.11 Adverse effects in therapeutic use of drugs, medicaments, or biological substances
Includes:
adverse reaction to administration of drug (including over-the-counter drug) in correct dosage in therapeutic situations
adverse reaction to blood products administered by medical/paramedical staff in therapeutic situations
Excludes:
accidental overdose, poisoning of unspecified intent, and intentional poisoning with medications in non-therapeutic situations (e.g., child eating mother’s iron tablets, person overdosing on heroin to commit suicide, etc., (6nn)

20.12 Adverse effects from contaminated medical or biological substances
Includes:
adverse reaction to administration of contaminated blood products by medical/paramedical staff in therapeutic situations

20.13 Failure in dosage of drugs, medicaments, or biological substances during surgical/medical care
Includes:
adverse reaction to administration of incorrect dosage of penicillin or unmatched blood products by medical/paramedical staff in therapeutic situations
non-administration of necessary drug

20.18 Other specified adverse effects related to drugs, medicaments, or biological substances

20.19 Unspecified adverse effects related to drugs, medicaments, or biological substances

20.2 Foreign object left in body during surgical/medical care

20.20 Foreign object left in body during surgical operation
20.21 Foreign object left in body during infusion or transfusion
20.22 Foreign object left in body during kidney dialysis or other perfusion
20.23 Foreign object left in body during injection or immunisation
20.24 Foreign object left in body during endoscopic examination
20.25 Foreign object left in body during heart catherisation
20.26 Foreign object left in body during aspiration, puncture, or other catherisation
20.27 Foreign object left in body during removal of catheter or packing
20.28 Foreign object left in body during other specified surgical/medical care
20.29 Foreign object left in body during unspecified surgical/medical care

20.3 Adverse incidents associated with medical devices in diagnostic/therapeutic use

20.4 Unintentional cut, puncture, perforation during surgical/medical care
20.40 Unintentional cut, puncture, perforation during surgical operation
20.41 Unintentional cut, puncture, perforation during infusion or transfusion
20.42 Unintentional cut, puncture, perforation during kidney dialysis or other perfusion
20.43 Unintentional cut, puncture, perforation during injection or immunisation
20.44 Unintentional cut, puncture, perforation during endoscopic examination
20.45 Unintentional cut, puncture, perforation during heart catherisation
20.46 Unintentional cut, puncture, perforation during aspiration, puncture, or other catherisation
20.47 Unintentional cut, puncture, perforation during administration of enema
20.48 Unintentional cut, puncture, perforation during other specified surgical/medical care
20.49 Unintentional cut, puncture, perforation during unspecified surgical/medical care

20.5 Failure of sterile precaution during surgical/medical care
20.51 Failure of sterile precaution during surgical operation
20.52 Failure of sterile precaution during infusion or transfusion
20.53 Failure of sterile precaution during kidney dialysis or other perfusion
20.54 Failure of sterile precaution during injection or immunisation
20.55 Failure of sterile precaution during endoscopic examination
20.56 Failure of sterile precaution during heart catherisation
20.57 Failure of sterile precaution during aspiration, puncture, or other catherisation
20.58 Failure of sterile precaution during other specified surgical/medical care
20.59 Failure of sterile precaution during unspecified surgical/medical care

20.6 Abnormal reaction of the patient or later complication caused by
surgical operations or other surgical/medical procedures, without mention of misadventure at the time of the procedure, nec

20.61 Surgical operation or procedure as the cause of abnormal reaction of the patient or of later complication without mention of misadventure at the time of the procedure

20.62 Medical procedure, other than surgical, as the cause of abnormal reaction of the patient or of later complication without mention of misadventure at the time of the procedure

20.7 Non-administration of surgical/medical care

20.8 Other specified complications of health care

20.9 Unspecified complications of health care

98 Other specified mechanism of injury

98.1 Contact with foreign object
   Excludes:
   foreign object left in body during surgical/medical care (20.2n)

98.11 Foreign object on eye or entering into/through eye
   Includes:
   foreign object on cornea or under eyelid

98.12 Foreign object entering into/through nose

98.13 Foreign object entering into/through mouth

98.14 Foreign object entering into/through ear

98.15 Foreign object entering into/through other natural orifice
   Includes:
   rape or sodomy with an object
   Excludes:
   inhalation of foreign object with obstruction of airway (5.14)
   rape, attempted rape nos (1.32)
   sodomy, attempted sodomy nos (1.32)

98.18 Other specified contact with foreign object

98.19 Unspecified contact with foreign object

98.2 Exposure to electricity, radiation

98.21 Exposure to electric current
   Includes:
   burning from electric current, electric shock, electrocution
   Excludes:
   lightning (8.8)

98.22 Exposure to welding light

98.23 Exposure to other visible and ultraviolet light: man-made sources

98.24 Exposure to sun light
Includes:
- sunburn
Excludes:
- sunstroke (4.15)

98.25 Exposure to other non-ionising radiation
Includes:
- infrared, laser, radio frequency radiation

98.26 Exposure to ionising radiation, non-natural
Includes:
- radioactive isotopes, x-rays
Excludes:
- exposure to natural radiation (98.28)

98.28 Exposure to other specified radiation
Includes:
- natural ionising radiation

98.29 Exposure to unspecified radiation

98.3 Exposure to sound, vibration

98.31 Exposure to sound
Includes:
- sound waves, supersonic waves

98.32 Exposure to vibration
Includes:
- infrasound waves
- vibrating jackhammer

98.4 Exposure to air pressure

98.41 Exposure to suction
Includes:
- being sucked into the skimmer box of a swimming pool filtration system, having hair sucked into the suction points of a spa

NOTE: If a person drowns because his or her hair is sucked into a suction point, the direct mechanism is Drowning/near drowning (5.2), and the underlying mechanism is 98.41.

98.42 Exposure to other extreme or changing air pressure
Includes:
- changes as a result of rapid descent or ascent in water, aircraft, or underground
- resident or prolonged visit at high altitude

98.48 Exposure to other specified air pressure
98.49 Exposure to unspecified air pressure

98.5 Exposure to low gravity
Includes:
- weightlessness in a spacecraft or simulator
Neglect, abandonment, or lack of necessities of life

Lack of food
Includes:
lack of food as the cause of inanition/exhaustion, insufficient nourishment, starvation

Lack of water
Includes:
lack of water as the cause of dehydration, inanition/exhaustion

Other specified neglect, abandonment, or lack of necessities of life
Includes:
destitution

Unspecified neglect, abandonment, or lack of necessities of life

Other specified mechanism of injury
Includes:
lifestyle-related condition

Unspecified mechanism of injury
ACTIVITY WHEN INJURED

Required field length:
nn

Definition:
The type of activity the injured person was engaged in when the injury occurred.

Context:
Activity when Injured data allow injury cases to be grouped into categories that correspond to areas of responsibility for injury prevention. Being able to identify, for example, injuries that occur while a person is working or injuries that occur while playing a sport may help guide development of more effective prevention strategies. Activity data are especially useful when combined with Place of occurrence data. Together, these data allow practitioners to identify the responsible sector for injury prevention and control. The major areas of responsibility are not mutually exclusive. For example, a bus driver's colliding with a tree while driving his bus on public road could be considered both a traffic injury event and an occupational injury event. The issue of overlap arises especially with Activity when Injured.

Guide for use:
When selecting the code for Activity when Injured, determine the area of responsibility and the main purpose of the activity. If there is more than one area of responsibility, use the inclusion and exclusion criteria to help determine the most appropriate code. These criteria, typically listed under the more detailed level of codes, serve to clarify overlap between such areas as occupational and sports injury events; educational and sports injury events; occupational and traffic injury events; and sports and exercise during leisure time and leisure and play activities.

To code Activity when Injured:

Select the category that best describes the activity the injured person was engaged in when the injury occurred.

If two or more activity codes are judged to be equally appropriate, select the one that comes first in the code list.
ACTIVITY WHEN INJURED: FULL LIST OF CODES WITH INCLUSION AND EXCLUSION CRITERIA

1 Paid work

Relevant data elements in Occupational Module:

*Economic activity*

*Occupation*

1.1 *Travelling to/from paid work*

Includes:
- commuting by car, bus, train, bicycle, etc.
- walking
- boarding or alighting from a vehicle

Excludes:
- *travelling* nos (8)

1.2 *Travelling in the course of paid work*

Includes:
- truck driver, *travelling* salesperson, professional racing cyclist

Excludes:
- *travelling* nos (8)

1.8 *Other specified paid work*

Includes:
- begging
- military service
- paid self-employment
- professional sports activity (eg., professional athlete, coach)
- professional teaching or tutoring
- prostitution
- sports activity under auspices of employer (eg., firemen doing sports exercise)

Relevant data elements in Sports Module:

*Type of sport/exercise activity*

*Phase of Activity*

*Personal Countermeasures*

*Environmental Countermeasures*

1.9 *Paid work, unspecified*

Includes:
- work nos

2 Unpaid work

Excludes:
- work nos (1.9)

2.1 *Travelling to/from unpaid work*

Includes:
- helping out at school canteen
volunteer driver
Excludes:
  travelling nos (8)

2.2 **Travelling in the course of unpaid work**
Includes:
  going shopping
  picking up children from school
Excludes:
  travelling nos (8)

2.3 **Cooking, cleaning, maintenance**

2.4 **Shopping**

2.5 **Caring for children and relatives**

2.6 **Do-it-yourself projects**
Includes:
  making own furniture
  sewing curtains

2.7 **Maintenance of own home or garden**

2.8 **Other specified unpaid work**
Includes:
  harvesting natural resources (eg., fishing, hunting, herding, berry picking) for own consumption or for bartering
  on a small scale, growing vegetables in own garden to exchange for milk or eggs unpaid work in a family business or on a family farm
  voluntary work (eg., in a hospital, community organisation, etc.)

2.9 **Unpaid work, unspecified**

3 **Education**

NOTE: Refers to activities that form part of a formal educational course or program of instruction provided by a school, college, university, adult education institution, etc.

3.1 **Physical education class, school sports**

NOTE: Refers to organised physical activities that form part of a formal educational course or program of instruction provided by a school, college, or university.
Includes:
  sports competition between two teams from different schools
Excludes:
  practising for school sport during leisure time (4.8)
  sports and exercise during leisure time (4.8)
  teaching or tutoring (usually 1.8 or 2.8)

Relevant data elements in Sports Module:
  Type of sport/exercise activity
  Phase of Activity
  Personal Countermeasures
  Environmental Countermeasures
3.2 Other specified education

Includes:
- classroom activities
- informal activities during school hours (e.g., playground activities during break)
- off-site activities associated with education (e.g., school/college field trip, excursion, or camp; studying/doing homework at home)
- travelling under auspices of education institution (e.g., travelling by school bus)

Excludes:
- teaching or tutoring (usually 1.8 or 2.8)

3.9 Unspecified education

4 Sports and exercise during leisure time

NOTE 1: Refers to physical activities with a described functional purpose (e.g., competition, practising for competition, improving physical health) performed during leisure time.

NOTE 2: All activities included in data element Type of sport/exercise activity (part of the Sports Module) can be considered as sports and exercise.

Relevant data elements in Sports Module:
- Type of sport/exercise activity
- Phase of Activity
- Personal Countermeasures
- Environmental Countermeasures

4.1 Organised sports and exercise during leisure time

NOTE: Refers to organised physical activities with a described functional purpose performed during leisure time and under the auspices of a sports federation, club, or similar organisation. A referee, trainer, or coach usually accompanies the activity.

Includes:
- associated training
- organised racing (e.g., running; racing with cars, bicycles, motorcycles, horses)

Excludes:
- professional sporting activity (1.8)
- sporting activity under auspices of employer (1.8)
- physical education class, school sports (3.1)
- playing draughts, checkers, chess (5.1)

4.8 Other specified sports and exercise during leisure time

NOTE: Refers to physical activities similar to organised sports activity, but not under the auspices of a sports federation, club, or similar organisation.

Includes:
- football in a park, garden, or street
- working out at home
- roller skating in a street or park
jogging, alone or with an informal group
volleyball game at camp site
practising for school sport during leisure time
practising professional sport during leisure time
Excludes:
professional sports activity (1.8)
sports activity under auspices of employer (1.8)
physical education class, school sports (3.1)
organised sports and exercise during leisure time (4.1)
leisure and play (5)
playing draughts, checkers, chess (5.1)

4.9 Unspecified as to organised nature of sports and exercise during leisure time
NOTE: Refers to activities recognisable as a form of sport during leisure time but without satisfying information specified on the organised character.
Excludes:
professional sports activity (1.8)
sports activity under auspices of employer (1.8)
physical education class, school sports (3.1)
leisure and play (5)
playing draughts, checkers, chess (5.1)

5 Leisure or play
NOTE: Refers to play, hobbies, and other activities undertaken mainly for pleasure, relaxation, or leisure. May be passive (watching TV) or active (dancing at a party), undertaken alone (reading) or with other people (children playing "hide and seek"), commercial (attending a “fun park”) or not (family picnic at a public park), and formally organised (day-trip) or not (a child “just playing”).

5.1 Leisure
Includes:
hobby activity other than do-it-yourself (eg., putting together model cars, stamp collecting)
entertainment activity (eg., watching movie or football match, dancing, partying, going to the theatre)
recreational activity (eg., camping, lying on the beach)
recreational competitive activity without substantial physical component (eg., chess or bridge competition)
travelling for sightseeing (eg., bike ride, hike in the mountains)
walking the dog
Excludes:
do-it-yourself, maintenance activity (2.6)
any form of physical activity with a described functional purpose (4)

5.2 Play
Includes:
unstructured play, children's game (eg., "hide and seek")
5.8 Other specified leisure or play
5.9 Unspecified leisure or play

6 Vital activity

6.1 Taking meals (eating/drinking)
6.2 Sleeping, resting
6.3 Personal hygiene
6.8 Other specified activity
   Includes:
   sexual intercourse
   getting dressed
   Excludes:
   cooking, household cleaning (2.3)
   vital activity conducted by a health care professional in the course of health care
   (7)
   prostitution (1.8)

6.9 Unspecified vital activity

7 Being taken care of

7.1 Being taken care of by health care professional
   NOTE: Refers to undergoing activities conducted by or at the direction of a health care professional. These may occur in a health care facility or elsewhere.
   Includes:
   health care activity undertaken by or at the direction of a health care professional
   (eg., undergoing surgery or a diagnostic procedure, being administered a medication, self-administering a prescribed medication, home renal dialysis)
   being carried, moved, or held by a health care professional
   being bathed by a health care professional
   travelling in the course of health care (eg., riding in an ambulance)

7.2 Being taken care of by non health care person
   Includes:
   being carried, moved, or held by a person other than a health care professional
   (eg., infant being carried by its parent or other care giver)
   being bathed by a family care giver
   health care activity undertaken by a relative or friend (eg., first aid care)
   Excludes:
   child playing under supervision of an adult (5)
   health care activity undertaken by or at the direction of a health care professional
   (eg., being carried, moved, or held by a health care giver, undergoing surgery or a diagnostic procedure, being administered a medication, self-administering a prescribed medication, home renal dialysis, 7.1)
   travelling in the course of health care (eg., riding in an ambulance, 7.1)

7.9 Being taken care of by a person, not specified as a health care professional or non health care person
Includes:
- being carried, moved or held by an unspecified person
- being bathed by an unspecified person
- health care activity undertaken by an unspecified person

Excludes: child playing under supervision of an adult (5.2)

8 **Travelling not elsewhere classified**

<table>
<thead>
<tr>
<th>Includes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>travelling to/from sports or exercise during <strong>leisure</strong> time</td>
</tr>
<tr>
<td>travelling to/from entertainment activity</td>
</tr>
<tr>
<td>travelling to/from recreational activity</td>
</tr>
<tr>
<td>walking to/from <strong>school</strong></td>
</tr>
</tbody>
</table>

| Excludes: |
| travelling in the course of **paid work** (eg., truck **driver**, 1.2) |
| **travelling** in the course of **unpaid work** (eg., going shopping, 2.2) |
| travelling to/from **unpaid work** (eg., volunteer driver 2.1) |
| travelling under the auspices of an **education** institution (eg., riding a **school bus**, 3.2) |
| organised racing (eg., running; racing with **cars, bicycles, motorcycles, horses**, 4.1 or 1.1) |
| travelling for **sightseeing** (5.1) |
| travelling in the course of **health care** (eg., riding in an ambulance, 7.1) |

98 **Other specified activity**

| 98.1 | General walking around |
| 98.2 | Other specified activity |

| Includes: |
| sitting, standing |
| the victim’s activity is known, but is nothing in particular |
| religious/spiritual activities |
| activities during **violence/aggression** (eg., fighting, arguing, having a tantrum, attempting suicide) |

99 **Unspecified activity**
TYPE OF SPORT/EXERCISE ACTIVITY

Required field length:
nn.nn

Definition:
The type of sport or exercise activity in which the injured person was engaged at the time of the injury. Participation in a sport or exercise activity includes practice, training, and competition, as well as pre-event (eg., taping, dressing), warm-up, cool down, and post-event (eg., showering, dressing) activities. It does not include travel to and from the event or activity.

Context:
This detailed classification of sports and exercise activities will facilitate the comparison of particular activities and injuries across time and location. In addition, this information may highlight particular problem areas or injuries for future prevention efforts.

Guide for use:
To code Type of Sport/Exercise Activity:

Select the sport or exercise activity engaged in at the time of injury. Depending on the level of detail known, select either a broad description of the activity (whole number) or a more specific activity (decimal).

Code individual participation in an activity related to a team sport as that team sport. For example, if an injury occurs while an individual is shooting a basketball alone, code the sport as Basketball (1.01).

Code training for a particular sport as that sport. For instance, if a participant is injured while weight training during football practice, code the sport as Football – American tackle (1.02), rather than Strength training/body building (13.03).
TYPE OF SPORT/EXERCISE ACTIVITY: FULL LIST OF CODES WITH INCLUSION AND EXCLUSION CRITERIA

1 Team ball sports

1.01 Basketball
1.02 Football—American tackle
1.03 Football—American touch or flag
1.04 Football—Australian rules
American Football
Gaelic Football
1.05 Football – Other specified
1.06 Football – Unspecified
1.07 Handball – Team
1.08 Netball
1.09 Rugby—Union
   NOTE: This form of rugby allows scrums.
1.10 Rugby—League
   NOTE: This form of rugby does not allow scrums.
1.11 Rugby – Unspecified
1.12 Soccer – Outdoor
1.13 Soccer – Indoor
1.14 Soccer – Unspecified
1.15 Volleyball
   Includes:
   beach and outdoor volleyball
   two-, four-, and six-player volleyball
   indoor volleyball
1.16 Walleyball
1.98 Other specified team ball sport
1.99 Unspecified team ball sport

2 Team bat or stick sports

2.01 Baseball
2.02 Cricket
2.03 Hockey – Ice
   Includes:
   indoor ice hockey
   outdoor ice hockey
2.04 Hockey—Street/ball
   Includes:
   outdoor hockey played on in-line or roller skates
2.05 Hockey – Field
<table>
<thead>
<tr>
<th>2.06</th>
<th><strong>Hockey – Floor</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Includes:</strong></td>
</tr>
<tr>
<td></td>
<td>outdoor hockey played on turf or grass</td>
</tr>
</tbody>
</table>

| 2.07  | **Hockey – Other specified** |

| 2.08  | **Hockey – Unspecified** |

| 2.09  | **Ringette** |

| 2.10  | **Softball** |

| 2.11  | **T-ball** |

| 2.98  | **Other specified team bat or stick sport** |

| 2.99  | **Unspecified team bat or stick sport** |

### 3 Team water sports

| 3.01  | **Rescue and resuscitation** |

| 3.02  | **Synchronised swimming** |

| 3.03  | **Underwater hockey** |

| 3.04  | **Water polo** |

| 3.98  | **Other specified team water sport** |

| 3.99  | **Unspecified team water sport** |

### 4 Boating sports

| 4.01  | **Canoeing** |

| 4.02  | **Jet skiing** |

| 4.03  | **Kayaking/white-water rafting** |

| 4.04  | **Power boat racing** |

| 4.05  | **Rowing/sculling** |

| 4.06  | **Surf boating** |

| 4.07  | **Yachting/sailing** |

| 4.98  | **Other specified boating sport** |

| 4.99  | **Unspecified boating sport** |

### 5 Individual water sports

| 5.01  | **Diving – Platform or cliff** |

| 5.02  | **Diving – Springboard** |

| 5.03  | **Diving – Unspecified (from height into water)** |

| 5.04  | **Fishing** |
Includes:
fishing from a pier, boat, or shore
ice fishing
5.05 Scuba diving
5.06 Snorkelling
5.07 Surfing/boogie boarding
Excludes:
wind surfing (5.12)
5.08 Surf life saving
Excludes:
team rescue and resuscitation (3.01)
5.09 Swimming in pool
Includes:
competitive and recreational swimming
Swimming in open water
5.10 Water skiing
Includes:
wake boarding
water ski jumping
5.11 Water tubing
5.12 Wind surfing
Excludes:
surfing/boogie boarding (5.07)
5.98 Other specified individual water sport
5.99 Unspecified individual water sport

6 Ice or snow sports

6.01 Bobsledding
6.02 Curling
6.03 Ice skating/ice dancing
Excludes:
ice hockey (2.03)
speed skating (6.14)
6.04 Luge
6.05 Ski-patrolling
6.06 Skiing – Alpine/downhill
6.07 Skiing – Nordic/cross country
6.08 Skiing – Freestyle
6.09 Skiing – Snow ski jumping
Skiing – Slalom
6.10 Skiing – Other specified
6.11 Skiing – Unspecified
6.12 Snowmobiling
6.13 Snow boarding
6.14 Speed skating
Excludes:
- ice hockey (2.03)
- ice skating/ice dancing (6.03)

6.15 Tobogganing
6.98 Other specified ice or snow sport
6.99 Unspecified ice or snow sport

7 Individual athletic activities

7.01 Aerobics/callisthenics
7.02 Jogging/running
7.03 Tai Chi
7.04 Track & field—Racing over obstacles or hurdles
   Includes:
   - 100-, 110-, and 400-meter hurdles
   - steeplechase
7.05 Track & field—Sprinting (1-400 meters)
   Includes:
   - 100-, 200-, and 400-meter races
   Excludes:
   - racing over hurdles (7.04)
7.06 Track & field—Running middle distances (401-1,500 meters)
   Includes:
   - 800- and 1,500-meter races
   Excludes:
   - racing over obstacles or hurdles (7.04)
7.07 Track & field—Running long distances (greater than 1,501 meters)
   Includes:
   - 5,000- and 10,000-meter races
   - marathon races
   Track running without hurdles
   Hurdle racing
   Marathon racing
   Cross-country running
7.08 Track & field – High jump
7.09 Track & field – Long jump
7.10 Track & field – Pole vault
7.11 Track & field – Triple jump
7.12 Track & field – Discus
7.13 Track & field – Javelin
7.14 Track & field – Hammer throw
7.15 Track & field – Shot put
7.16 Track & field – Other specified
7.17 Track & field – Unspecified
7.18 Walking
7.19 Yoga
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.98</td>
<td>Other specified individual athletic activity</td>
</tr>
<tr>
<td>7.99</td>
<td>Unspecified individual athletic activity</td>
</tr>
</tbody>
</table>

8 Acrobatic sports

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.01</td>
<td>Cheerleading</td>
</tr>
<tr>
<td>8.02</td>
<td>Gymnastics – Balance beam</td>
</tr>
<tr>
<td>8.03</td>
<td>Gymnastics – Floor exercise/tumbling</td>
</tr>
<tr>
<td>8.04</td>
<td>Gymnastics – High bar</td>
</tr>
<tr>
<td>8.05</td>
<td>Gymnastics – Parallel bars</td>
</tr>
<tr>
<td>8.06</td>
<td>Gymnastics – Rhythmic (with props)</td>
</tr>
<tr>
<td>8.07</td>
<td>Gymnastics – Rings</td>
</tr>
<tr>
<td>8.08</td>
<td>Gymnastics – Side horse/pommel horse</td>
</tr>
<tr>
<td>8.09</td>
<td>Gymnastics – Trampoline/mini-trampoline</td>
</tr>
<tr>
<td>8.10</td>
<td>Gymnastics – Uneven parallel bars</td>
</tr>
<tr>
<td>8.11</td>
<td>Gymnastics – Vault</td>
</tr>
<tr>
<td>8.12</td>
<td>Gymnastics – Other specified</td>
</tr>
<tr>
<td>8.13</td>
<td>Gymnastics – Unspecified</td>
</tr>
<tr>
<td>8.98</td>
<td>Other specified Acrobatic sport</td>
</tr>
<tr>
<td>8.99</td>
<td>Unspecified Acrobatic sport</td>
</tr>
</tbody>
</table>

9 Aesthetic activities

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.01</td>
<td>Dancing</td>
</tr>
<tr>
<td></td>
<td>Ballet</td>
</tr>
<tr>
<td></td>
<td>Ballroom dancing, etc.</td>
</tr>
<tr>
<td></td>
<td>Jitterbug</td>
</tr>
<tr>
<td>9.02</td>
<td>Marching</td>
</tr>
<tr>
<td>9.98</td>
<td>Other specified aesthetic sport</td>
</tr>
<tr>
<td>9.99</td>
<td>Unspecified aesthetic sport</td>
</tr>
</tbody>
</table>

10 Racquet sports

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.01</td>
<td>Badminton</td>
</tr>
<tr>
<td>10.02</td>
<td>Racquetball</td>
</tr>
<tr>
<td>10.03</td>
<td>Squash</td>
</tr>
<tr>
<td>10.04</td>
<td>Table tennis/Ping-Pong</td>
</tr>
<tr>
<td>10.05</td>
<td>Tennis</td>
</tr>
<tr>
<td></td>
<td>Includes:</td>
</tr>
<tr>
<td></td>
<td>tennis played on clay, grass, or hard court</td>
</tr>
<tr>
<td>10.98</td>
<td>Other specified racquet sport</td>
</tr>
<tr>
<td>10.99</td>
<td>Unspecified racquet sport</td>
</tr>
</tbody>
</table>

11 Target/precision sports

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.01</td>
<td>Archery</td>
</tr>
</tbody>
</table>
11.02 Bocce, boules, petanque
   Petanque
11.03 Billiards, pool, snooker
11.04 Lawn bowling
   Road bowling
11.05 Croquet
11.06 Darts
11.07 Golf
11.08 Ten-pin bowling
11.09 Firearm-shooting
   Pistol shooting
   Rifle shooting
   Field shooting
   Claypigeon shooting
11.98 Other specified target/precision sport
11.99 Unspecified target/precision sports

12 Combative sports
12.01 Akido
12.02 Boxing
12.03 Fencing
12.04 Judo
12.05 Jujitsu
12.06 Karate
12.07 Kendo
12.08 Kick-boxing
12.09 Kung fu
12.10 Tae kwon do
12.11 Wrestling – Freestyle
12.12 Wrestling – Greco-Roman
12.13 Wrestling – Professional (entertainment style)
12.14 Self defence
   Swordplay
12.98 Other specified combative sport
12.99 Unspecified combative sport

13 Power sports
13.01 Power lifting
13.02 Olympic weightlifting
13.03 Strength training/body building
13.98 Other specified power sport
13.99 Unspecified power sport
14  Equestrian activities
   14.01  Dressage
   14.02  Endurance riding
   14.03  Eventing
   14.04  Mustering or stock work
   14.05  Polo/polocrosse
   14.06  Pony club
   14.07  Racing club
   14.08  Rodeo
   14.09  Show jumping
   14.10  Steeplechase
   14.11  Trail or general horseback riding
   14.12  Trotting/harness
   14.98  Other specified equestrian activity
   14.99  Unspecified equestrian activity

15  Adventure sports
   15.01  Abseiling/rappelling
   15.02  Hiking
   15.03  Mountaineering
   15.04  Orienteering/rogaining
   15.05  River rafting
   15.06  Rock climbing – outdoors
          Wall-climbing – indoors
   15.98  Other specified adventure sport
   15.99  Unspecified adventure sport

16  Wheeled motor sports
   16.01  Riding an all-terrain vehicle (ATV)
          Includes:
          three- and four-wheeled ATVs
   16.02  Motorcycling, roadracing
          Includes:
          motocross
          dirt bike racing and jumping
          Speedway
          Motor-cross
   16.03  Motor car racing
   16.04  Go-carting/carting
   16.98  Other specified motor sport
   16.99  Unspecified motor sport

17  Wheeled non-motored sports
17.01 Cycling – BMX
   Includes:
   trick and stunt bikes
   BMX jumping
17.02 Cycling – Mountain
17.03 Cycling – Road
17.04 Cycling – Track/velodrome
17.05 Cycling – Other specified
17.06 Cycling – Unspecified
17.07 In-line skating/rollerblading
17.08 Roller skating
   Roller skiing
17.09 Skateboarding
17.10 Scootering
17.11 Spinning/stationary bike riding
17.12 Street luge
17.98 Other specified wheeled non-motored sport
17.99 Unspecified wheeled non-motored sport

18 Multidiscipline sports
18.01 Biathlon—Cross-country skiing event
18.02 Biathlon—Shooting event
18.03 Biathlon—Unspecified event
18.04 Decathlon—100-meter event
18.05 Decathlon—400-meter event
18.06 Decathlon—1,500-meter event
18.07 Decathlon—110-meter hurdles event
18.08 Decathlon—Long jump event
18.09 Decathlon—High jump event
18.10 Decathlon—Shot put event
18.11 Decathlon—Discus event
18.12 Decathlon—Javelin event
18.13 Decathlon—Pole vault event
18.14 Decathlon—Unspecified event
18.15 Heptathlon—200-meter event
18.16 Heptathlon—100-meter hurdles event
18.17 Heptathlon—High jump event
18.18 Heptathlon—Long jump event
18.19 Heptathlon—Javelin event
18.20 Heptathlon—Shot put event
18.21 Heptathlon—800-meter event
18.22 Heptathlon—Unspecified event
18.23 Modern Pentathlon—Shooting event
18.24 Modern Pentathlon—Fencing event
18.25 Modern Pentathlon—Swimming event
18.26 Modern Pentathlon – Equestrian event
18.27 Modern Pentathlon – Running event
18.28 Modern Pentathlon – Unspecified event
18.29 Triathlon – Cycling event
18.30 Triathlon – Running event
18.31 Triathlon – Swimming event
18.32 Triathlon – Unspecified event

Biathlon
Triathlon
Pentathlon
Decathlon

18.98 Other specified multidiscipline sport
18.99 Unspecified multidiscipline sport

19 Aero (non-motored) sports

19.01 Aerobatics
19.02 Gliding
19.03 Hang gliding
19.04 Parachuting/sky diving
   Includes:
   sky surfing
   base jumping
19.05 Paragliding/parasailing
   Kite-gliding
   Flying hot air balloon
   Bungee jumping
   Motor flying
19.98 Other specified aero sport
19.99 Unspecified aero sport

20 Other school-related recreational activities

20.01 School physical education class
20.02 School free play
   Includes:
   activities during recess
20.98 Other specified school sport/exercise activity
20.99 Unspecified school sport/exercise activity

98 Other specified sport/exercise activity

99 Unspecified sport/exercise activity
TYPE OF INJURY

Required field length:
nn.n

Definition:
Type of injury sustained.

Context:
The main purpose of this data element (in combination with data element body part injured) is to enable injury cases to be grouped into diagnosis categories.

Guide for use:
If more than one diagnosis appears on the A&E department record, code the one that seems to be the most severe first.
<table>
<thead>
<tr>
<th>Type of Injury</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>No injury diagnosed</td>
</tr>
<tr>
<td>2</td>
<td>Contusion, bruise</td>
</tr>
<tr>
<td>3</td>
<td>Abrasion</td>
</tr>
<tr>
<td>4</td>
<td>Open wound</td>
</tr>
<tr>
<td>5</td>
<td>Fracture</td>
</tr>
<tr>
<td>6</td>
<td>Luxation, dislocation</td>
</tr>
<tr>
<td>7</td>
<td>Distorsion, sprain</td>
</tr>
<tr>
<td>8</td>
<td>Crushing injury</td>
</tr>
<tr>
<td>9</td>
<td>Traumatic amputation</td>
</tr>
<tr>
<td>10</td>
<td>Concussion</td>
</tr>
<tr>
<td>11</td>
<td>Other specified brain injury</td>
</tr>
<tr>
<td>12</td>
<td>Consequences of foreign body entering through natural orifice</td>
</tr>
<tr>
<td>13</td>
<td>Suffocation (asphyxia)</td>
</tr>
<tr>
<td>14</td>
<td>Burns, scalds</td>
</tr>
<tr>
<td>15</td>
<td>Corrosion (chemical)</td>
</tr>
<tr>
<td>16</td>
<td>Electrocution</td>
</tr>
<tr>
<td>17</td>
<td>Radiation (sunlight, X-rays)</td>
</tr>
<tr>
<td>18</td>
<td>Frostbite</td>
</tr>
<tr>
<td>19</td>
<td>Injury to nerves and spinal cord</td>
</tr>
<tr>
<td>20</td>
<td>Injury to blood vessels</td>
</tr>
<tr>
<td>21</td>
<td>Injury to muscle and tendon</td>
</tr>
<tr>
<td>22</td>
<td>Injury to internal organs</td>
</tr>
<tr>
<td>23</td>
<td>Poisoning</td>
</tr>
<tr>
<td>97</td>
<td>Multiple injuries</td>
</tr>
</tbody>
</table>
98  Other specified type of injury

99  Unspecified type of injury
PART OF THE BODY INJURED

Required field length:
n.nn

Definition:
Region or part of the body where the injury is located

Context:
The main purpose of this data element (in combination with data element type of injury) is to enable cases to be grouped into diagnosis categories.

Guide for use:
If necessary, you may code two different injured body parts. If so, you must always be careful to code the corresponding body parts with the injured coded. The first coded injury refers to the first coded body part and the second injury (if any) refers to the second coded body part. You should always code the most severe injury first.

If data element Type of injury has been coded as ‘No injury diagnosed’ (code 1) then this data element should be coded as ‘Body part, unspecified’ (code 9.9).

Notes:
-
PART OF THE BODY INJURED: FULL LIST OF CODES WITH INCLUSION AND EXCLUSION CRITERIA

1 Head

1.1 Eye area
1.2 Face, other and unknown part
   1.21 Ear
   1.22 Nose
   1.23 Teeth
   1.24 Jaw/cheek
   1.25 Lip and oral cavity
   1.28 Face, other specified
   1.29 Face, unknown specified
1.3 Brain
1.4 Skull
1.8 Other specified part of the head
1.9 Unspecified part of the head

2 Neck, throat

2.1 Cervical spine
   Includes:
   cervical vertebra
cervical intervertebral disc
cervical spinal cord
2.2 Organs throat
   Includes:
cervical oesophagus
larynx
pharynx
trachea
thyroid gland
internal blood vessels
2.8 Neck, throat, other specified
   Includes:
   peripheral nerves in neck
   muscle and tendon at neck level
2.9 Neck, throat, unspecified

3 Trunk

3.1 Thoracic spine
   Includes:
thoracic vertebra
3.2 Organs trunk
   3.21 Lungs, bronchus
   3.22 Heart
   3.23 In- and external genital organs
   3.24 Intra abdominal organs (eg., spleen, colon)
   3.25 Pelvic organs (eg., kidney, bladder)
   3.28 Organs trunk, other specified
      Includes:
      internal blood vessels
   3.29 Organs trunk, unspecified

3.3 Thorax
   3.31 Chest
   3.32 Ribs and sternum
   3.38 Thorax, other specified
      Includes:
      breast
      front wall of thorax
      back wall of thorax
      nerves and spinal cord
      muscle and tendon
   3.39 Thorax, unspecified

3.4 Abdomen, lower back, lumbar spine and pelvis
   3.41 Abdomen, external
   3.42 Lower spine (lumbar and sacral)
   3.43 Lower back, buttocks
   3.44 Pelvis
   3.48 Abdomen, other specified
   3.49 Abdomen, unspecified

3.8 Trunk, other specified
3.9 Trunk, unspecified

4 Upper extremities
   4.1 Collar bone
   4.2 Shoulder
      Includes:
      scapula
   4.3 Upper arm, humerus
   4.4 Elbow
   4.5 Forearm, lower arm
   4.6 Wrist
   4.7 Hand and fingers
      4.71 Hand
      4.72 Fingers
4.8 Upper extremities, other specified  
4.9 Upper extremities, unspecified  

5 Lower extremities  
5.1 Hip  
5.2 Upper leg/thigh  
5.3 Knee  
5.4 Lower leg  
5.5 Ankle  
5.6 Foot and toes  
5.6.1 Foot  
5.6.2 Toes  
5.8 Lower extremities, other specified  
5.9 Lower extremities, unspecified  

7 Multiple body parts  
7.1 Multiple body parts affected  
Includes:  
head with neck  
thorax with abdomen, lower back, and pelvis  
multiple regions of upper limb(s)  
multiple regions of lower limb(s)  
other combinations of body regions  
7.2 Whole body affected  
Includes:  
whole body affected due to burning  
whole body affected due to poisoning  

9 Body part, other and unknown  
9.1 Organs, level not specified  
Includes:  
respiratory tract, part unknown  
alimentary tract, part unknown  
unknown internal organs  
9.8 Body part, other specified  
9.9 Body part, unspecified
Required field length:
120 spaces free text

Definition:
Description of the event leading to the (suspected) injury

Context:
The coding form contains 120 spaces for free text. The free text is a very important element useful in more detailed analysis of the accident event. The free text is a description of the injury event in plain language, concentrating on describing “what went wrong?”. It should furthermore contain specific information on the place of occurrence. In case of accident in an institution and the name and address is very valuable information. Furthermore, information on the involved product is substantially increased if the text contains information on the product name, brand and functional condition.

Guide for use:
Recommendation: Include the narrative whenever possible.
Give a description of the process of the injury event as detailed as possible.
It should capture at least the following information:
- What were you doing?
- Where were you doing it?
- What went wrong?
- How was the person hurt?
- Which objects/substances/products were involved?
- What was the injury?

Notes:
-
OBJECT/SUBSTANCE PRODUCING INJURY

Required field length:
nn.nnnn

Definition:
Matter, material or thing being involved in the injury event.

Context:
An object (eg., a car, heater, knife) or substance (eg., hot water, flames) conveys the mechanism of an injury. The aim of this data element is to provide specific categories for objects/substances commonly involved in producing injury, and broader categories for almost all objects/substances.

Guide for use:
Injuries are often the result of a sequence of events. Three types of objects/substances may be involved in the injury event:
Underlying object/substance—the object/substance involved at the start of the injury event
Direct object/substance—the object/substance producing the actual physical harm
Intermediate objects/substances—other objects/substances involved in the injury event

The direct and underlying objects/substances may be the same. For example, if a person cuts his or her finger with a knife while preparing food, the knife is involved at the start of the injury event, and it is the object that produces the actual physical harm. Coding object/substance data in these situations is straightforward. Other situations are more complex. For example, if a woman trips over an appliance cord and hits her head on a counter, the appliance cord is the underlying object, and the counter is the direct object.

Some situations are further complicated by several objects producing injuries. In the case of a car crash, there may be an underlying object—for example, the tree the car hit—and several direct objects, such as the steering wheel, the dashboard, and the windshield. Each of the direct objects may cause different injuries.
Injury events are not always a clear sequence of events involving objects/substances in clear succession. Moreover, information available in case notes often does not allow for distinguishing between the types of objects or substances. Object/Substance Producing Injury has three levels of codes, the third level being the most detailed.

To code Object/Substance Producing Injury:
Select up to three objects/substances. If it is possible to distinguish between the different types of objects/substances, code the underlying object/substance first, followed by the direct object/substance. Last, code any intermediate objects/substances mentioned or thought relevant.
If more than one underlying object is involved, select the underlying and direct objects that resulted in the more severe injury.
If the injuries are equally severe, select the underlying and direct objects of the injury mentioned first in the case information.
If it is not possible to distinguish between the different types of objects/substances, code up to three objects/substances in the sequence they appear in the case information.

Notes:
Gaps exist in the sequence of codes, primarily in the third level codes. These gaps allow for the addition of codes between major version changes.
OBJECT/SUBSTANCE PRODUCING INJURY: FULL LIST OF CODES WITH INCLUSION AND EXCLUSION CRITERIA

<table>
<thead>
<tr>
<th></th>
<th>Land vehicle or means of land transport</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Person-powered means of transport</strong></td>
</tr>
<tr>
<td>1.01</td>
<td>Transport vehicle drawn or pushed by person</td>
</tr>
<tr>
<td>1.0101</td>
<td>Includes:</td>
</tr>
<tr>
<td></td>
<td>rickshaw</td>
</tr>
<tr>
<td></td>
<td>pushcart</td>
</tr>
<tr>
<td></td>
<td>Excludes:</td>
</tr>
<tr>
<td></td>
<td>baby pram, buggy, pusher, or stroller (6.0101)</td>
</tr>
<tr>
<td></td>
<td>ice skates (10.0430), snow skis (10.0420)</td>
</tr>
<tr>
<td></td>
<td>in-line skates, roller skates (10.0401)</td>
</tr>
<tr>
<td></td>
<td>skateboard (10.0405)</td>
</tr>
<tr>
<td>1.0105</td>
<td><strong>Pedal cycle</strong></td>
</tr>
<tr>
<td></td>
<td>Includes:</td>
</tr>
<tr>
<td></td>
<td>non-motorised mountain bike, bicycle, adult tricycle</td>
</tr>
<tr>
<td></td>
<td>adult unpowered tricycle, pedal cycle rickshaw</td>
</tr>
<tr>
<td></td>
<td>trailer for child attached to adult pedal cycle</td>
</tr>
<tr>
<td></td>
<td>Excludes:</td>
</tr>
<tr>
<td></td>
<td>child's toy tricycle or other non-motorised ride-on toy (6.0201)</td>
</tr>
<tr>
<td></td>
<td>motorised bicycle (1.0301), motorised tricycle (1.0310)</td>
</tr>
<tr>
<td>1.0198</td>
<td>Other specified person-powered means of transport</td>
</tr>
<tr>
<td>1.0199</td>
<td>Unspecified person-powered means of transport</td>
</tr>
<tr>
<td>1.02</td>
<td><strong>Animal-powered means of transport</strong></td>
</tr>
<tr>
<td>1.0201</td>
<td>Animal being ridden</td>
</tr>
<tr>
<td>1.0205</td>
<td>Animal-drawn vehicle</td>
</tr>
<tr>
<td></td>
<td>Excludes:</td>
</tr>
<tr>
<td></td>
<td>animal-drawn farm machinery (2.01)</td>
</tr>
<tr>
<td>1.0298</td>
<td>Other specified animal-powered means of transport</td>
</tr>
<tr>
<td>1.0299</td>
<td>Unspecified animal-powered means of transport</td>
</tr>
</tbody>
</table>
1.03  **Motorised two- or three-wheeled vehicle**

1.0301  **Motorcycle**
Includes:
- motorcycle with sidecar
Excludes:
- motorised pedal cycle (1.0305)
- motorised bicycle (1.0305)
- three-wheeled motorcycle (1.0310)
- dirt bike (2.9820)

1.0305  **Moped, scooter, vespa**
Includes:
- motorised pedal cycle
- motorised bicycle
Excludes:
- three-wheeled scooter (01.0310)
- lightweight folding scooter (10.0410)

1.0310  **Three-wheeled motor vehicle or scooter**
Includes:
- motor-driven tricycle (for adults)
- motorised rickshaw

_ three-wheeled motor vehicle (e.g., tuk-tuk)_
Excludes:
- three-wheeled all-terrain vehicle (2.9820)
- child's toy tricycle or other non-motorised ride-on toy (6.0201)
- motorcycle with sidecar (1.0301)

1.0398  **Other specified motorised two- or three-wheeled vehicle**

1.0399  **Unspecified motorised two- or three-wheeled vehicle**

1.04  **Light transport vehicle with four or more wheels**

1.0401  **Passenger car**
Includes:
- station wagon
- minivan carrying up to 10 people
- _school bus_ with seats for up to 10 people
Excludes:
- four-wheeled ATV (2.9820)

1.0405  **Light truck, sport utility vehicle, utility van, 4x4 vehicle, jeep, pick-up truck**
Excludes:
- four-wheeled ATV (2.9820)
1.0410 Minibus
Includes:
vehicle with 11 to 19 seats
minibus used as taxi
minibus used as school bus
Excludes:
bus (1.0501)

1.0498 Other specified light transport vehicle with four or more wheels
Includes:
golf cart
Excludes:
race car (2.9810)
quad motorcycle (2.9820)
four-wheeled ATV (2.9820)

1.0499 Unspecified light transport vehicle with four or more wheels

1.05 Heavy transport vehicle with four or more wheels
1.0501 Bus, coach
Includes:
vehicle with 20 or more seats
school bus with 20 or more seats

1.0510 Tractor-trailer, articulated lorry, 18-wheeler, rig

1.0530 Heavy truck nec
Includes:
panel truck, tow truck, dump truck, garbage truck
Excludes:
graders, excavators, front-end loaders (2.02)

1.0560 Trailer or horse-float

1.0598 Other specified heavy transport vehicle with four or more wheels
Excludes:
graders, excavators, front-end loaders (2.02)
heavy truck nec (1.0530)

1.0599 Unspecified heavy transport vehicle with four or more wheels

1.06 Rail vehicle
1.0601 Streetcar, tram, electric car, car trolley
Excludes:
tram, truck, or tub in mine or quarry (2.0230)

1.0605 Train
Includes:
diesel, electric, or steam-powered train
Excludes:
- tram, truck, or tub in mine or quarry (2.0230)
- streetcar (1.0601)
- funicular, monorail (1.0610)

1.0610 Funicular, monorail, or other similar rail vehicle
NOTE: A funicular is a mountain railway operating by a machine-driven cable with two cars, one of which descends while the other ascends.
Excludes:
- cable car (not on rails), ski chair-lift, ski lift with gondola (1.9801)
- tram, truck, or tub in mine or quarry (2.0230)
- streetcar (1.0601)

1.0698 Other specified rail vehicle
1.0699 Unspecified rail vehicle

1.07 Parts/components of land vehicle or means of land transport
NOTE: These codes apply when an injury event involves a stationary vehicle (e.g., getting one’s hand caught in a door while a car is stationary).

1.0701 Vehicle doors nec
Includes:
- “hatch”-type door

1.0705 Vehicle seat belts, deploying air bags
Excludes:
- baby/child car seat (6.0120)

1.0710 Tire (tyre) or battery (attached or unattached)

1.0715 Vehicle window or windshield

1.0720 Interior of vehicle
Includes:
- dashboard, steering wheel, seats

1.0725 Engine of vehicle
Includes:
- engine removed from vehicle for repairs

1.0798 Other specified part/component of land vehicle or means of transport
Includes:
- pedal cycle chain

1.0799 Unspecified part/component of land vehicle or means of transport

1.98 Other specified land vehicle or means of land transport

1.9801 Cable car, ski chair lift, ski lift with gondola

1.9805 Motorised wheelchair
Includes:
- 3-wheeled motorised wheelchair
Excludes:
- non-motorised wheelchair (9.0705)
1.9810 Small-sized motorised vehicles for children
   Excludes:
   ride-on toys not motorised (6.0201)
1.9815 Motorhome
1.9898 Other specified land vehicle or means of land transport
   Excludes:
   industrial transport vehicle (section 2.02)

1.99 Unspecified land vehicle or means of land transport

2 Mobile machinery or special purpose vehicle

2.01 Mobile machinery/special purpose vehicle mainly used in agriculture
2.0101 Ride-on lawnmower
   Excludes:
   powered push lawnmower (11.0235)
   unpowered push lawnmower (11.0301)
2.0105 Tractor
2.0110 Harvesting machine
   Includes:
   grain harvester, cotton harvester, sugar cane harvester, fruit and
t   vegetable harvester, combine harvester
   animal-powered harvesting machinery
2.0115 Auger, post-hole digger
   Includes:
   animal-powered auger or post-hole digger
2.0120 Equipment towed or powered by tractors nec
   Includes:
   slasher, cultivating equipment, fertilizer spreader
2.0198 Other specified mobile machinery or special purpose vehicle used in agriculture
Includes:
animal-powered farm machinery
self-propelled machinery

2.0199 Unspecified mobile machinery or special purpose vehicle used in agriculture
Includes:
animal-powered farm machinery nos

2.02 Mobile machinery/special purpose vehicle mainly used in industry
2.0201 Forklift or lift truck
Excludes:
mobile crane (2.0205)

2.0205 Mobile crane
Excludes:
crane machinery or fixed plant (11.0130)

2.0210 Battery-powered airport passenger vehicle
2.0215 Logging car
2.0220 Coal-car in mine
2.0225 Tram, truck, or tub in mine or quarry
Excludes:
rail vehicle, train (1.06)

2.0298 Other specified mobile machinery or special purpose vehicle mainly used in industry
2.0299 Unspecified mobile machinery or special purpose vehicle mainly used in industry

2.03 Mobile machinery/special purpose vehicle mainly used in construction
2.0301 Grader
2.0305 Front-end loader, bulldozer
2.0310 Excavator, digger, mechanical shovel
2.0315 Road roller
2.0398 Other specified mobile machinery or special purpose vehicle mainly used in construction
2.0399 Unspecified mobile machinery or special purpose vehicle mainly used in construction

2.98 Other specified mobile machinery or special purpose vehicle
2.9801 Ambulance
2.9805 Fire truck, fire engine
2.9810 Race car
Excludes:
road-registered motor sport vehicle (1.0401)

2.9815 Snowmobile, ski-scooter

2.9820 Special all-terrain vehicle/off-road vehicle
Includes:
all-terrain vehicle with two, three, or four wheels
dirt bike
quad motorcycle
Excludes:
hovercraft (3.0140)
4x4 vehicle

2.9898 Other specified mobile machinery or special purpose vehicle
Excludes:
shopping trolley (8.0410)

2.99 Unspecified mobile machinery or special purpose vehicle

3 Watercraft or means of water transport

Includes:
watercraft in recreational or transport activities

3.01 Powered (motorized) watercraft or means of water transport

3.0101 Merchant ship, cargo ship, oil tanker, ferry used for intercontinental travel
Excludes:
ferry used for short trips across minor rivers (3.0115)

3.0105 Passenger ship, passenger liner, ocean liner

3.0110 Fishing boat, trawler

3.0115 Ferry used for short trips across minor rivers
Excludes:
large ferry used for intercontinental travel (3.0101)

3.0120 Motorized yacht, motorboat, powered boat, personal powered watercraft
Includes:
dingy (dinghy)/rowboat/rubberduck (zodiac) with outboard motor

3.0130 Houseboat

3.0140 Hovercraft
Includes: hovercraft in use over water, land, or swamp

3.0160 Submarine or related craft

3.0198 Other specified powered watercraft or means of water transport

3.0199 Unspecified powered watercraft or means of water transport

3.02 Unpowered watercraft or means of water transport

3.0201 Sailboat, unpowered yacht

3.0205 Canoe, kayak, rowboat, pirogue, piragua
### 3.02 Watercraft or means of water transport


dingy (dinghy), unpowered inflatable raft, raft nos

- **3.0210** Wave board, surfboard, paddle ski
- **3.0215** Windsurfer
- **3.0298** Other specified unpowered *watercraft or means of water transport*
- **3.0299** Unspecified unpowered *watercraft or means of water transport*

### 3.03 Part/component of *watercraft* (powered or unpowered)

Includes:
- boarding plank
- *machinery on watercraft*
- propeller

### 3.04 Safety equipment at sea

- **3.0401** Life jaquet
- **3.0405** Lifebuoy
- **3.0498** Other specified safety equipment at sea
- **3.0499** Unspecified safety equipment at sea

### 3.99 *Watercraft*, unspecified as powered or unpowered, or unspecified means of water transport

### 4 Aircraft or means of air transport

#### 4.01 Powered *aircraft* or means of air transport

- **4.0101** Helicopter
- **4.0105** Airship, blimp

  *NOTE: A power-driven steerable *aircraft*, developed from the air balloon, that is lighter than air and consists of a streamlined envelope or hull containing helium gas, which provides buoyancy, with engines and gondolas (cabins) suspended from it.*
  
  *Excludes:*
  
  hot air passenger balloon (4.0201)

- **4.0110** Ultralight powered *aircraft*
- **4.0115** Private fixed-wing powered *aircraft*
- **4.0120** Commercial fixed-wing powered *aircraft*
- **4.0140** Military fixed-wing powered *aircraft*
- **4.0150** Spacecraft
- **4.0198** Other specified powered *aircraft* or means of air transport
- **4.0199** Unspecified powered *aircraft* or means of air transport

#### 4.02 Unpowered *aircraft* or means of air transport

- **4.0201** Passenger balloon, unpowered
4.0205 Parachute
4.0210 Hang-glider
4.0215 Glider
   Includes:
      rigid-wing glider
4.0298 Other specified unpowered aircraft or means of air transport
4.0299 Unspecified unpowered aircraft or means of air transport

4.03 Part/component of aircraft (powered or unpowered)
   Includes:
      boarding steps
      machinery on aircraft
      propeller

4.98 Other specified aircraft or means of air transport
4.99 Unspecified aircraft or means of air transport

5 Furniture/furnishing

5.01 Bed, bedding or bedding accessories
5.0101 Bunk bed
   Includes:
      base, mattress, ladder of bunk bed
5.0105 Special bed, orthopaedic bed, or stretcher
   Includes:
      hospital bed
      base, mattress of special bed, orthopaedic bed or stretcher
5.0110 Hammock
5.0115 Mattress, sleeping mat
   Includes:
      air or camping mattress
   Excludes:
      mattress as part of bed (see 5.0101, 50105, 50120)
5.0120 Other specified bed
   Includes:
      base, mattress
      waterbed or accessories
      convertible, hideaway, or sofabed
      futon
5.0125 Pillow, cushion
5.0130 Bedrails
5.0198 Other specified bedding or bedding accessories
Includes:
bed linen, sheets, slipcover, doonah, quilt, duvet, blanket,
sleeping bag
Excludes:
pillow, cushion (5.0125)
sleeping mat (5.0115)
5.0199 Unspecified bed, bedding or bedding accessories

5.02 Chair, sofa
5.0201 Upholstered chair, sofa, couch, lounge, divan
Excludes:
sofabed (5.0120)
revolving office chair (5.0220)
5.0205 Hard chair, couch, bench
Excludes:
upholstered chair (5.0201)
rocking chair (5.0210)
5.0210 Rocking/gliding chair
5.0215 Folding chair
Includes:
beach folding chair
5.0220 Revolving chair
Includes:
office chair
5.0225 Stool
Includes:
footstool, barstool, kitchen stool, ottoman, hassock
5.0230 Commode chair
5.0298 Other specified chair, sofa
5.0299 Unspecified chair, sofa

5.03 Table, stand, cupboard, shelf or partition
5.0301 Rack, bookshelf
5.0305 Cabinet, cupboard, side board, chest of drawers, tall boy,
dresser
5.0310 Dining room/kitchen table, kitchen bench
Includes:
glass-topped dining table
Excludes:
fitted counter top, kitchen top (14.0120)
5.0304 Coffee table
Includes:
glass-topped coffee table
5.0320 Night table, end table
5.0325 Desk, workbench
5.0330 Television table, stand, cupboard
5.0335 Folding table
5.0340 Room divider or partition
5.0398 Other specified table, stand, cupboard, shelf or partition
5.0399 Unspecified table, stand, cupboard, shelf or partition

5.04 Decoration, decorating item
5.0401 Rug, mat, loose carpet
   Excludes:
   sleeping mat (5.0115)
   rubber bathtub mat (9.0720)
   wall-to-wall carpet (14.0301)
5.0405 Draperies, curtains
5.0401 Roller/venetian blind or indoor shutter
5.0405 Window covering hardware
   Includes:
   rod, hook, cord, ring
5.0420 Mirror or mirror glass
   Includes:
   mounted/framed mirror
5.0425 Portrait, picture, picture frame, or other wall hanging or similar decoration
5.0430 Ornament, bric-à-brac, knickknack, statue, vase, urn
   Excludes:
   Christmas tree ornament (5.0440)
5.0435 Christmas tree
   Includes:
   artificial tree
   real/fresh-cut tree
5.0440 Holiday decorations, etc.
   Includes:
   fairy lights
   Christmas tree decorations
   Excludes:
   candles (7.0315)
5.0498 Other specified decoration, decorating item
   Includes:
   music box or chime
   artificial flower or plant
5.0499 Unspecified decoration, decorating item

5.05 Garden furniture
Excludes:
Hammock (5.0115)
5.0501 Garden table
5.0505 Garden chair, lawn chair
5.0510 Deck chair, sunbed
5.0515 Garden parasol
5.0598 Other specified garden furniture
5.0599 Unspecified garden furniture

5.06 Household linen
5.0601 Towel
5.0605 Flannel/wash cloth
5.0610 Place mat
5.0615 Serviette/napkin
5.0620 Table cloth
5.0625 Tea cloth/oven cloth
5.0698 Other specified household linen
5.0699 Unspecified household linen

5.98 Other specified furniture/furnishing
5.99 Unspecified furniture/furnishing

6 Infant or child product

6.01 Baby or child article
   Includes:
   articles used for bedding, working with, confining or transporting a baby or child
   Excludes:
   toiletries for babies (9.04)
nappy bucket, diaper pail (8.0305)
6.0101 Baby pram, buggy, pusher, stroller, carriage
6.0105 Baby walker
6.0110 Baby exerciser, jumper, or portable swing (home use)
6.0115 High chair, booster seat
6.0120 Baby or child car seat
6.0125 Potty chair, training seat
6.0130 Cot, crib, baby bed
   Includes:
   bassinet, basket bed
   mattress or pad
6.0145 Playpen, travel yard
6.0150 Baby gate or barrier
6.0155 Baby carrier (back pack type)
6.0160 Baby carrier (pedal cycle)
   Excludes:
   pedal cycle trailer (1.0105)
6.0165 Baby baths or bathinettes
6.0170 Changing table
Includes:
platform used to hold a baby while nappy/diaper is being changed

6.0175 Pacifier, dummy
6.0180 Baby bottle or nipple
6.0185 Diaper, nappy
   Includes:
disposable or cloth diaper
disposable training pants
6.0190 Diaper fastener
   Includes:
safety pin or other fastener
6.0198 Other specified baby or child article
   Includes:
   baby rattle
teething ring
6.0199 Unspecified baby or child article

6.02 Toy

6.0201 Tricycle (child's) or other ride-on toy
   Includes:
wheeled, unpowered riding toy or go cart
   Excludes:
   pedal cycle (1.0105)
in-line skates, roller skates (10.0401)
skateboard (10.0405)
small motorised vehicle (1.9810)

6.0205 Toy vehicle, Tonka toy
   Includes:
electric toy race car or train
   Excludes:
   ride-on toy (6.0201)
   small motorised vehicle (1.9810)

6.0210 Toy gun or related accessory
   Includes:
toy cap, cap toy, cap gun, other toy gun
   Excludes:
gas-, air-, or spring-operated gun (including BB gun, 12.0220)

6.0218 Other toy weapon or projectile toy
   Includes:
   slingshot, bow and arrow designed as toy, etc.
   knife designed as toy
   Excludes:
   bow and arrow designed as weapon (12.0105)
   bow and arrow designed as sports equipment (10.0205)
   knife designed as kitchen utensil (8.0105)
   knife designed as weapon (12.0110)
6.0220  Toy – art, craft, or kit
Includes:
building set, building blocks, Lego blocks
chemistry/science kit
model kit, rocket kite, or fuel-powered model
needle craft kit
plasticine, modelling clay

6.0225  Board game or accessory/piece

6.0230  Toy sports equipment
Includes:
skipping rope, jump rope
Excludes:
basketball designed for use in sport (10.01)

6.0245  Ball, general, other than sport specific
Includes:
Inflatable beach ball
Excludes:
basketball designed for use in sport (10.01)

6.0250  Flying toy
Includes:
kite or kite string
frisbee
boomerang
NOTE: A boomerang is a piece of flat, curved wood often so balanced that, when thrown to a distance, it returns to the thrower.
Excludes:
rocket kite or fuel-powered model (6.0220)

6.0255  Doll, doll accessory or part, stuffed toy
Includes:
Barbie doll, GI-Joe figurine, action figure
teddy bear

6.0260  Balloon (toy)

6.0265  Other inflatable toy
Excludes:
Inflatable beach ball

6.0270  Marble, bead
Excludes:
button (9.0105)

6.0275  Play tent, tunnel, or other enclosure
Excludes:
play house (6.0301)
camping tent (98.0301)

6.0280  Toy box or chest

6.0298  Other specified toy
Includes:
part of toy nec
6.0399 Unspecified toy

6.03 Playground equipment
6.0301 Tree house, play house
6.0305 Flying fox
   NOTE: A type of playground equipment (ie., a track glide with a rigid channel to slide on).
6.0310 Monkey bar
   NOTE: An elevated horizontal ladder.
6.0318 Other playground climbing apparatus
   Excludes:
   monkey bar (6.0310)
   slide (6.0320)
6.0320 Slide, sliding board
6.0325 Swing, swing set
6.0330 Seesaw, teeter totter
6.0345 Powered amusement rides
   Includes:
   roller coaster
   shopping mall ride
   joy car, bumper car
   merry-go-round
   roller-coaster
   amusement trains
   bumper boat
   ferris wheel
   rodeo horse/bull (artificial)
6.0398 Other specified playground equipment
   Includes:
   maze
   inflatable bouncer, bouncing castle
6.0399 Unspecified playground equipment

6.98 Other specified infant or child product

6.99 Unspecified infant or child product

7 Appliance mainly used in household
7.01 Cooking or kitchen appliance
   Excludes:
   crockery, kitchen container (8.02n)
   non-electric containers or utensils used for cooking (8.01n)
7.0101 Electric kettle
   Excludes:
   non-electric kettle (8.0101)
7.0105 Electric frying pan, deep fryer
7.0110 Electric bread making machine
7.0115 Food processor, blender, juicer
7.0120 Powered knife
    Excludes:
    Non-electric knife (8.0105)
7.0125 Electric toaster, toaster oven
7.0126 Microwave oven
7.0130 Other electric cooking or food processing appliance
    Includes:
    electric griddle, electric waffle iron
    slow cooker, crock pot
    coffee maker, can opener (powered)
    Excludes:
    electric stove, oven or cooktop (7.0145)
    electric barbeque, grill or outdoor cooker (7.0165)
7.0145 Stove, oven, cooktop
    Includes:
    stove fueled by coal, wood, electricity, or gas
    Excludes:
    free-standing kerosene cooking stove (7.0155 or 7.0156)
    barbeque, Weber grill, outdoor cooker/griller, outdoor clay oven
    (7.0165)
    microwave oven (7.0126)
    camping/propane stove (98.0398)
7.0155 Pressurised kerosene/paraffin cooking stove
    Excludes:
    low-pressure, multiwick kerosene/paraffin stove
    camping/propane stove (98.0398)
7.0156 Other type of kerosene/paraffin cooking stove
    Includes:
    low-pressure, multiwick kerosene/paraffin stove
    Excludes:
    pressurised kerosene/paraffin cooking stove (7.0155)
    camping/propane stove (98.0398)
7.0160 Coal pot
    NOTE: An open clay pot with a wide mouth that holds a grill for
    resting food or pots. The coals sit at the bottom of this clay pot,
    where there is a hole for circulation of air and for fanning the coals
    into fire.
7.0161 Chulo stove
    NOTE: An enclosed ceramic stove, such as those used in India.
7.0165 Barbeque, Weber grill, outdoor cookers/griller, outdoor clay oven
Excludes:
  built-in fireplace (14.0401)
  stand alone, built-in barbeque (14.0405)

7.0170 Dishwasher
7.0175 Refrigerator, freezer
7.0198 Other specified cooking or kitchen appliance
7.0199 Unspecified cooking or kitchen appliance

7.02 Cleaning or laundering appliance or tool
7.0201 Washing machine
  Includes:
  electric, gas or hand-operated washing machine

7.0205 Other specified clothes cleaning appliance
7.0210 Clothes dryer
7.0215 Clothes iron, press
7.0216 Clothesline, clothes drying rack, clotheshorse
  Includes:
  mobile clotheshorse, frame for hanging clothes

7.0220 Cleaning tool (unpowered)
  Includes:
  broom, duster, mop
  Excludes:
  vacuum cleaner (7.0225)
  bucket, pail (8.0305)

7.0225 Vacuum cleaner
  Excludes:
  industrial vacuum cleaner (11.0240)

7.0230 Powered cleaning tool nec
  Excludes:
  vacuum cleaner (7.0225)
  industrial vacuum cleaner (11.0240)

7.0298 Other specified cleaning or laundering appliance or tool
  Excludes:
  clothes cleaning appliance nec (7.0205)

7.0299 Unspecified cleaning or laundering appliance or tool

7.03 Lighting appliance
7.0301 Free-standing gas, oil, or kerosene lamp
7.0302 Electric lamp
7.0305 Other specified lamp or lamp component
  Includes:
  internal/external gas lamp attached to main gasline
  lampshade
  Excludes:
  camping/propane stove (98.0398)

7.0310 Battery-operated torch
7.0315 Candle, candlestick
7.0398 Other specified lighting appliance
   Excludes:
   lamp nec (7.0305)
7.0399 Unspecified lighting appliance

7.04 Heating or cooling appliance
7.0401 Fan
   Includes:
   ceiling fan
   Excludes:
   hand-held fan (9.9840)
7.0405 Electric or gas radiator, heater
   Includes:
   bar-radiator, oil heater
   Excludes:
   kerosene heater (7.0410)
7.0410 Kerosene heater
7.0498 Other specified heating or cooling appliance
   Includes:
   domestic boiler, furnace
   hot water system, solar hot water system
7.0499 Unspecified heating or cooling appliance

7.05 Sewing appliance or equipment
7.0501 Sewing machine
   Includes:
   electric sewing machine
   manual sewing machine
7.0505 Scissors
7.0510 Pin, needle
   Excludes:
   hypodermic needle (40.0101)
   Tools for needlework
   Includes:
   needle, pin
   knitting needles
   safety pin
   crochet hook
   Excludes:
   hypodermic needle (40.0101)
7.0598 Other specified sewing appliance or equipment
7.0599 Unspecified sewing appliance or equipment

7.06 Entertainment appliance
7.0601 Television
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Excludes</th>
<th>Sub-Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.0605</td>
<td><strong>Video recorder, decoder</strong></td>
<td>personal computer or related accessory (9.0505)</td>
<td><strong>Screen</strong></td>
</tr>
<tr>
<td>7.0610</td>
<td><strong>Video camera, camera, digital camera or accessory</strong></td>
<td>personal computer or related accessory (9.0505)</td>
<td><strong>Projector with equipment</strong></td>
</tr>
<tr>
<td>7.0615</td>
<td><strong>Sound equipment</strong></td>
<td>includes: hi-fi, stereo equipment, speakers</td>
<td><strong>Binoculars, telescope</strong></td>
</tr>
<tr>
<td>7.0620</td>
<td><strong>Screen</strong></td>
<td></td>
<td><strong>Magnifying glass</strong></td>
</tr>
<tr>
<td>7.0625</td>
<td><strong>Projector with equipment</strong></td>
<td></td>
<td><strong>Other specified entertainment appliance</strong></td>
</tr>
<tr>
<td>7.0630</td>
<td><strong>Binoculars, telescope</strong></td>
<td></td>
<td><strong>Unspecified entertainment appliance</strong></td>
</tr>
<tr>
<td>7.0635</td>
<td><strong>Magnifying glass</strong></td>
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<tr>
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<td><strong>Magnifying glass</strong></td>
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<tr>
<td>7.0698</td>
<td><strong>Other specified entertainment appliance</strong></td>
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<td>7.0699</td>
<td><strong>Unspecified entertainment appliance</strong></td>
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</tr>
<tr>
<td>7.98</td>
<td><strong>Other specified household appliance</strong></td>
<td></td>
<td>8. <strong>Utensil or container</strong></td>
</tr>
<tr>
<td>7.9801</td>
<td><strong>Cord of household appliance, extension cord</strong></td>
<td>a cord which is an integral part of the appliance – code to the appliance</td>
<td></td>
</tr>
<tr>
<td>7.9898</td>
<td><strong>Other specified household appliance</strong></td>
<td></td>
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</tr>
<tr>
<td>8</td>
<td><strong>Utensil or container</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.01</td>
<td><strong>Cooking or food processing utensil</strong></td>
<td></td>
<td>8.01</td>
</tr>
<tr>
<td>8.0101</td>
<td><strong>Non-electric kettle</strong></td>
<td></td>
<td>8.0101</td>
</tr>
<tr>
<td>8.0105</td>
<td><strong>Knife nec</strong></td>
<td></td>
<td>8.0105</td>
</tr>
<tr>
<td>8.0110</td>
<td><strong>Cooking pot, pan</strong></td>
<td></td>
<td>8.0110</td>
</tr>
<tr>
<td>8.0115</td>
<td><strong>Pressure cooker</strong></td>
<td></td>
<td>8.0115</td>
</tr>
<tr>
<td>8.0120</td>
<td><strong>Cutlery, food preparation utensil</strong></td>
<td></td>
<td>8.0120</td>
</tr>
</tbody>
</table>
Includes:
spoon, fork, chopsticks
garlic press, chopping board, potato peeler
ice pick for domestic use
Excludes:
knife, table knife (8.0105)
ice pick used as aid in ice climbing (10.0225)

8.0198 Other specified cooking or food processing utensil
Includes:
bottle opener

8.0199 Unspecified cooking or food processing utensil

8.02 Crockery, kitchen container
8.0201 Drinking glass, cup made from glass or china, etc.
Excludes:
cup made from plastic, wood, or clay (8.0215)

8.0205 Plate, bowl, dish made from glass or china, etc
Excludes:
plate, bowl, or dish made from plastic, wood, or clay (8.0215)

8.0210 Glass bottle or jar

8.0215 Container made from plastic, wood, or clay
Includes:
plastic cup, bottle, plate, bowl

8.0298 Other specified crockery, kitchen container
8.0299 Unspecified crockery, kitchen container

8.03 Cleaning utensil or container
8.0305 Bucket, pail
Includes:
nappy bucket, diaper pail
Excludes:
hot water in bucket (18.0101)

8.0398 Other specified cleaning utensil or container
8.0399 Unspecified cleaning utensil or container

8.04 Food storage or related utensil or container
8.0401 Tinned container, tin can
8.0405 Box or carton containing food or drink
Excludes:
glass or plastic bottle/jar (8.0210)

8.0410 Grocery or shopping trolley/cart
8.0498 Other specified food storage or related utensil or container
8.0499 Unspecified food storage or related utensil or container

8.98 Other specified utensil or container
8.9801 Rubbish bin, trash can, dumpster
Includes:
"Wheeliebin"

8.9808 Heavy container, box, package nec
Includes:
container or box weighing more than 5 kilograms/10 pounds gross
weight nec

8.9818 Bag, sack nec
Excludes:
plastic bag (98.9880)

8.9898 Other specified utensil or container

8.99 Unspecified utensil or container

9 Item mainly for personal use

9.01 Clothes, footwear, or related products
9.0101 Belt, braces, suspenders, sash
9.0105 Button
Excludes:
other types of clothes fasteners (9.0110)
bead (6.0270)

9.0110 Other specified clothes fastener
Includes:
zipper, press-stud, snap

9.0115 Shoe, sandal, slipper, boot
Includes:
sport shoe, hiking boot, etc.

9.0120 Shoelace, shoe buckle

9.0125 Shirt, blouse, t-shirt, trousers, slacks, jacket, coat, outerwear

9.0130 Nightclothes, pajamas, nightwear, underwear, undergarment,
lingerie

9.0198 Other specified clothes, footwear, or related product
Includes:
gloves, cap, hat, etc.
overshoe, socks

9.0199 Unspecified clothes, footwear, or related product

9.02 Clothing accessory or personal decoration item
9.0201 Wristwatch, jewellery
9.0298 Other specified clothing accessory or personal decorative
item
Includes:
scarf

9.0299 Unspecified clothing accessory or personal decorative item

9.03 Personal grooming utensil
9.0301 Hair dryer, curling iron, curler
9.0305 Comb, hairbrush
9.0310 Razor, razor blade
   Excludes:
   electric shaver (9.0315)
9.0315 Electric shaver
9.0320 Electric toothbrush
9.0328 Other toothbrush
9.0398 Other specified personal grooming utensil
9.0399 Unspecified personal grooming utensil

9.04 Toiletries, cosmetics, or related product
9.0401 Cleaning agent for contact lenses
9.0405 Dental care products
   Includes:
   toothpaste (with or without fluoride)
   product to clean false teeth
   mouthwash
9.0410 Cotton swab, cotton bud, Q-Tip
9.0415 Soap
   Includes:
   liquid soap
9.0420 Deodorants
9.0425 Perfume, cologne
9.0435 Hair colouring preparation
   Includes:
   peroxide
9.0440 Hair removal preparation, depilatory
9.0448 Other hair care product
9.0445 Nail polish or nail polish remover
9.0450 Body or facial cream/lotion
9.0455 Body powder, talc
   Includes:
   baby powder
9.0460 Cosmetics nec
   Includes:
   lipstick, lip balm
   eye make-up products (e.g., mascara, kohl, surma)
NOTE: Surma, also called “kohl,” is a popular cosmetic in
Northern Africa, the Middle East, India, Pakistan, and Bangladesh.
Women and young children apply it as an eye-liner. It may contain
powered galena (lead disulfide), which can be absorbed through
the conjunctiva.
9.0465 Suntan or sunscreen products, self-tan products
9.0470 Essential oils, oils used in aromatherapy
9.0498 Other specified toiletries or related product
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.0499</td>
<td>Unspecified toiletries or related product</td>
</tr>
<tr>
<td>9.05</td>
<td>Communication or related utensil or accessory</td>
</tr>
</tbody>
</table>
| 9.0501 | Telephone, mobile phone, cellular phone  
Includes:  
accessories such as charger, etc. |
| 9.0505 | Personal computer or related accessory  
Includes:  
printer, internal parts of the computer, speakers, compact disks, etc. |
| 9.0510 | Fax machine and other related equipment  
Includes:  
accessories such as toner, etc. |
| 9.0511 | Typewriter correction fluid |
| 9.0515 | Pen, pencil  
Includes:  
whiteboard marker, dry-erase marker |
| 9.0520 | Other stationery item  
Includes:  
stapler, hole puncher, letter opener, pencil sharpener, etc.  
Excludes:  
scissors (7.0505)  
pen or pencil (9.0515) |
| 9.0598 | Other specified communication or related utensil or accessory |
| 9.0599 | Unspecified communication or related utensil or accessory |
| 9.06 | Arts and crafts supplies  
Excludes:  
toy art, craft or kit (6.0220) |
| 9.0601 | Artist paint  
Includes:  
oil, acrylic, water colour |
| 9.0605 | Chalk, crayon  
Includes:  
chalk for black board  
Excludes:  
pen, pencil (9.0515)  
whiteboard marker (9.0515) |
| 9.0610 | Glazes |
| 9.0615 | Canvas |
| 9.0698 | Other specified arts and crafts supplies |
| 9.0699 | Unspecified arts and crafts supplies |
| 9.07 | Personal aid |
| 9.0701 | Eyewear |
Includes:
prescription eyewear
reading glasses
contact lenses
sunglasses
Excludes:
contact lens cleaning agent (9.0401)

9.0705  Wheelchair
Includes:
wheelchair used in competitive sport
Excludes:
motorised wheelchair (1.9805)

9.0710  Cane, walker, walking stick, walking frame
Includes:
white cane used by sight-impaired person
Excludes:
baby walker (6.0105)

9.0715  Prosthesis
Includes:
artificial eye
pacemaker
artificial limb

9.0720  Rubber bathtub mat

9.0798  Other specified personal aid
Excludes:
commode chair (5.0230)
bedrails (5.0130)

9.0799  Unspecified personal aid

9.08  Tobacco or related product
9.0801  Cigarette, cigar, pipe
9.0805  Lighter, match
9.0810  Aids to quit smoking
Includes:
adhesive patch, chewing gum containing nicotine, etc.
9.0898  Other specified tobacco or related product
Includes:
pipe tobacco, ashtray, chewing tobacco, etc.
9.0899  Unspecified tobacco or related product

9.09  Carrying equipment, luggage
9.0901  Suitcase
9.0905  Bag
9.0910  Basket
9.0915  Rucksack
9.0920  Cabin trunk
9.0925 Packing case
9.0930 Wheeled shopping bag
9.0998 Other specified carrying equipment
9.0999 Unspecified carrying equipment

9.98 Other specified personal use item
9.9801 Vapouriser, humidifier
9.9805 Oil burner
9.9810 Condom, or other contraceptive device
   Excludes:
   oral contraceptives, spermicides (20.23)
9.9815 Sex aids
9.9820 Alarm clock, clock
   Excludes:
   upright, self-standing grandfather clock (5.98)
9.9825 Umbrella
9.9830 Coins
9.9835 Keys
9.9840 Hand-held fan
   Includes:
   battery-operated fan
   Excludes:
   ceiling fan (7.0401)
9.9898 Other specified personal use item

9.99 Unspecified personal use item

10 Equipment mainly used in sports/recreational activity

10.01 Ball used in sport
10.0101 Soft ball
   Includes:
   tennis ball, squash ball, football
10.0105 Puck, hard ball
   Includes:
   golf ball, cricket ball, hockey ball or puck, baseball
10.0198 Other specified ball
10.0199 Unspecified ball

10.02 Hand-held equipment, racquet
   Excludes:
   firearms (handgun, rifle, shotgun, BB/pellet gun), projectiles or related items
   (12.02nn)
   toy guns or other toy weapons or projectiles (6.02nn)
10.0201 Spear, javelin nec
Excludes:
spear, javelin designed as weapon (12.0101)

10.0205 Bow, arrow (bow and arrow), bolt (crossbow) nec
Excludes:
bow and arrow/bolt designed as weapon (12.0105)
bow and arrow designed as toy (6.0218)

10.0210 Other specified sports projectile

10.0215 Bat, hockey stick

10.0220 Racquet

10.0225 Ice pick
Includes:
aid to ice climbing
Excludes:
ice pick used as kitchen utensil for domestic use (8.0120)

10.0230 Ski stick
Includes:
slalom ski stick
touring/cross-country ski stick

10.0298 Other specified hand-held equipment

10.0299 Unspecified hand-held equipment

10.03 Equipment/structure for playing sports and exercise

10.0301 Net
Includes:
tennis net, volleyball net, soccer net

10.0305 Rugby pole, net pole, goal post
Includes:
pole used to support net
post to mark goal or boundary

10.0310 Trampoline

10.0315 Gymnastic equipment
Includes:
pommel horse, balance beam, etc.
Excludes:
mat (10.0320)

10.0320 Sports mat

10.0325 Diving board, platform

10.0330 Exercise, fitness equipment – movable (portable)
Includes:
dumbbell

10.0335 Exercise, fitness equipment – fixed
Includes:
stairmaster
stationary pedal cycle

10.0340 Equipment for athletics, incl. tracks
Includes:
人工跑道, 赛跑
碎石跑道
跳高坑
撑杆跳坑
撑杆
锤, 赛跑
铁饼
跨栏

Excludes:
标枪 (10.0201)

10.0345 马术设备

包括:
马镫
马鞍
马嚼子

10.0350 钓鱼设备

包括:
钓鱼竿, 作钓竿
钓鱼线
钓鱼钩
浮标
拖网
拖网

10.0355 砖鸽射击设备

包括:
砖鸽
砖鸽发射机

10.0360 攀爬设备

包括:
攀爬墙

10.0388 其他指定用于体育/锻炼的设备/结构 — 移动 (便携式)

10.0398 其他指定用于体育/锻炼的设备/结构 — 固定

10.0399 未指定用于体育/锻炼的设备/结构

10.04 带轮子或设计为移动的设备, 主要用于运动/休闲活动

注: 有些类型的运动设备用于交通 (例如, 有些人用滑板去上班)。

10.0401 滑板, 滑雪板, 滑板鞋, 滑板
10.0405 Skateboard
10.0410 Folding scooter
   Includes:
   lightweight folding scooter
   Excludes:
   moped, scooter, vespa (1.0305)
10.0415 Waterski
10.0420 Snow ski
10.0425 Snow board
10.0430 Ice skate
10.0435 Sled, toboggan, sleigh, snow disk, snow tube
   Excludes:
   animal-drawn sleigh (1.0205)
   snowmobile (2.9815)
10.0440 Ski binding
   Includes:
   slalom binding
touring/cross-country binding
10.0498 Other specified equipment with wheels or equipment designed for movement
   Excludes:
   wheelchair used in competitive sport (9.0705)
10.0499 Unspecified equipment with wheels or equipment designed for movement

10.05 Underwater diving/scuba equipment
10.0501 Aqualung
   Includes:
   compressed air cylinder
10.0505 Diving belt, weight
10.0510 Wetsuit
10.0515 Goggle/mask, flipper/fin, snorkle
10.0598 Other specified diving/scuba equipment
   Excludes:
   diving board, platform (10.0325)
10.0599 Unspecified diving/scuba equipment

10.98 Other specified equipment for sports/recreational activity
10.9801 Personal protective equipment (PPE) designed for use in sports
   Includes:
   wrist guard, mouth guard, knee pad, helmet
   reflective clothing worn in sports activities
   Excludes:
   personal protective equipment (PPE) designed for work activities (11.0528)
10.9898 Other specified equipment for sports/recreational activity

10.99 Unspecified equipment for sports/recreational activity

11 Tool, machine, apparatus mainly used for work-related activity

11.01 Machinery or fixed plant

11.0101 Cutting/slicing machinery or fixed plant

11.0105 Crushing/pressing machinery or fixed plant

11.0110 Heating/cooking machinery or fixed plant
   Excludes:
   domestic boiler, hot water system, etc. (7.0498)
   electric or gas radiator, heater (7.0405)

11.0115 Refrigeration machinery or fixed plant
   Excludes:
   refrigerator, freezer (7.0175)
   air-conditioning unit (14.9861)

11.0120 Lifting machinery
   Excludes:
   mobile crane (2.0205)
   forklift, lift truck (2.0201)
   crane machinery or fixed plant (11.0130)

11.0125 Hoist machinery
   Excludes:
   mobile crane (2.0205)
   forklift, lift truck (2.0201)
   device, hoist for lifting patients (40.0110)

11.0130 Crane machinery or fixed plant
   Excludes:
   mobile crane (2.0205)
   forklift, lift truck (2.0201)

11.0135 Elevated work platform

11.0140 Conveyors, etc.

11.0145 Mains – gas, water, sewerage, steam, hot water, electricity
Includes:
- ventilation installation
- boiler
- industrial water/steam installation
- pump for water
- high-voltage and heavy current installation
- electric installation, less than 380 Volts
- meter electric/gas
- switch
- thermostat
- socket outlet, wall socket
- gas conduit
- gas boiler
Excludes:
- fittings/pipes for gas, water, steam, etc. (14.9855)

11.0150 Shearing plant
11.0155 Dairy/milking plant
11.0160 Press
   Includes:
   - metal forming press
11.0165 Garbage compactor
11.0170 Threshing machine
11.0171 Chaff-cutter, fodder-cutter
11.0198 Other specified machinery or fixed plant
11.0199 Unspecified machinery or fixed plant

11.02 Powered hand tool/equipment
Includes:
- machinery designed to be carried or moved by a person
Excludes:
- fixed machinery or plant (11.01)
- mobile mechanised equipment (1 or 2)
11.0201 Drill
11.0205 Chainsaw
11.0210 Other power saw
   Includes:
   - circular saw, jigsaw
11.0215 Welder, welding equipment
11.0220 Nail gun, stud driver
11.0225 Grinder, buffer, polisher, sander
11.0230 Powered garden tool
   Includes:
   - leaf shredder
   - hedge trimmer
11.0235 Powered push lawnmower
Excludes:
- ride-on lawnmower (2.0101)
- push lawnmower (unpowered) (11.0301)

11.0240 Industrial vacuum cleaner
Excludes:
- vacuum cleaner used in household (7.0225)

11.0245 Cutting/clipping equipment
Includes:
- scissors, mechanical
- plane (hand-held, mechanical)
- smoothing plane

11.0298 Other specified powered hand tool/equipment
11.0299 Unspecified powered hand tool/equipment

11.03 Unpowered hand tool/equipment
11.0301 Push lawnmower (unpowered)
Excludes:
- ride-on lawnmower (2.0101)
- powered push lawnmower (11.0235)

11.0305 Hammer, mallet
11.0310 Chopping tool
Includes:
- axe, hatchet

11.0315 Cutting tool
Includes:
- chisel
- handsaw
- knife, non-domestic
- plane
- cutting nippers
- plate shears, manual
- pincers
Excludes:
- knife specified as weapon (12.0110)
- knife nos (8.0105)
- electric knife (7.0120)
- scissors (7.0505)
- knife designed as kitchen utensil (8.0105)

11.0320 Digging or tilling tool
Includes:
- spade, shovel
- mattock
- garden fork, pitchfork

11.0325 Lifting tool
Excludes:
lifting *machinery* (11.0120)
forklift (2.0201)

11.0330  **Nail, screw, tack, etc.**
11.0335  **Fishhook used for work-related activity** (moved to 10.0350)

**Breaking tool**
- Includes:
  - iron spear, peg, knob bar
  - crowbar

11.0340  **Rat/mouse trap used for work-related activity**
11.0345  **Screwing tool/implement**
- Includes:
  - screwdriver
  - wrench, spanner

11.0350  **Drilling/grinding/sticking tool/implement**
- Includes:
  - drill-, hand-
  - file
  - whetstone
  - awl
  - drift

11.0355  **Gripping, holding and nipping tool/implement**
- Includes:
  - water pump pliers
  - pipe wrench

11.0360  **Securing implement**
- Includes:
  - cramp
  - workbench
  - vice
  - anvil

11.0365  **Painting implement**
- Includes:
  - paint brush
  - scraper for paint
  - sand paper

11.0370  **Measuring tool**
- Includes:
  - folding rule/tape measure
  - level
  - vernier gauge

11.0398  **Other specified unpowered hand tool/equipment**
11.0399  **Unspecified unpowered hand tool/equipment**

11.04  **Pressure-based equipment**
11.0401  **Gas cylinder**
Excludes:
air cylinder used in scuba diving (10.0501)

11.0405 Pressurised hose, pipe
11.0498 Other specified pressure-based equipment
11.0499 Unspecified pressure-based equipment

11.05 Other unpowered equipment
11.0501 Ladder, movable step
   Excludes:
ladder of bunkbed (5.0101)
11.0505 Scaffolding
11.0510 Helmet
   Excludes:
helmet designed for use in sports activities (10.9801)
11.0515 Earplugs
   Excludes:
earplugs designed for use in sports activities (10.9801)
11.0520 Welding mask
11.0528 Personal protective equipment (PPE) nec
   Includes:
gloves
   protective eyewear
   reflective clothing
   Excludes:
gloves worn as clothing accessory (9.0198)
PPE designed for use in sports activities (10.9801)
11.0530 Fire extinguisher
11.0598 Other specified unpowered equipment
11.0599 Unspecified unpowered equipment

11.98 Other specified tool, machine, apparatus, mainly used for work-related activities
11.9801 Mechanical power transmission device
11.9898 Other specified tool, machine, apparatus

11.99 Unspecified tool, machine, apparatus, mainly used for work-related activities

12 Weapon

12.01 Sharp object
12.0101 Spear, javelin designed as weapon
   Excludes:
spear used as sports equipment (10.0201)
spear/javelin nos (10.0201)
12.0105 Arrow (bow and arrow) or bolt (crossbow) designed as weapon
   Excludes:
   arrow used as sports equipment (10.0205)
   bow and arrow designed as toy (6.0218)

12.0110 Knife designed as weapon
   Includes:
   hunting, flick, sheath knife
   Excludes:
   knife designed and manufactured as utensil (e.g., kitchen knife, “Stanley” knife, 8.0105)
   knife nos (8.0105)
   electric knife (7.0120)

12.0115 Sword, dagger, bayonet, machete, panga, cutlass
   NOTE (1): A machete is a long, heavy, broad-blade knife used as a weapon or cutting tool in South America and the West Indies.
   NOTE (2): A panga is a long, heavy, broad-blade knife used as a weapon or cutting tool in Africa.

12.0198 Other specified sharp object

12.0199 Unspecified sharp object

12.02 Firearm or related item
12.0201 Bullet, pellet
   Includes:
   dum-dum bullet, rubber bullet, etc.

12.0205 Hand gun
   Includes:
   gun for single hand use, pistol, revolver
   Excludes:
   very pistol, flare (12.0298)

12.0210 Rifle
   Includes:
   army rifle, hunting rifle, machine gun
   Excludes:
   airgun (12.0220)

12.0215 Shotgun

12.0220 Airgun
   Includes:
   spring-operated gun, BB gun

12.0298 Other specified firearm or related item
   Includes:
   very pistol, flare

12.0299 Unspecified firearm or related item

12.98 Other specified weapon
12.9801 Club, cudgel, rod, knopkierie
NOTE: A knopkierie is a traditional weapon used by some African tribes, which is composed of a heavy wooden stick with a heavy round ball at one end.

12.9805 Electrical prod, stun gun
12.9810 Capsicum spray, mace, pepper spray
12.9898 Other specified weapon

12.99 Unspecified weapon

13 Animal, plant, or person

13.01 Plant
  13.0135 Branch or stick (as separate from tree, plant)
    Excludes:
    venomous plant (13.0050)
  13.0103 Tree, plant
    Includes:
    tree root
    Excludes:
    venomous plant (13.0050)
  13.0134 Plant thorn
    Excludes:
    venomous plant (13.0150)
  13.0105 Leaves, flowers
  13.0125 Plant seed
    Excludes:
    venomous plant (13.0150)
  13.0130 Fruit from plant
    Includes:
    coconut, jack, dorian
    Excludes:
    venomous plant (13.0150)
  13.0113 Mushroom, toadstool, fungus
  13.0150 Venomous or toxic plant nec
    Includes:
    injection of poison or toxin into or through skin by plant thorn, spine, nettle, or other object
    ingestion of poisonous plant or part of plant
    marine plant
  13.0198 Other specified plant
  13.0199 Unspecified plant

13.02 Bird
  13.0201 Ostrich, emu
  13.0205 Parrot, parakeet, cockatoo
  13.0210 Raven, crow, magpie
13.03 Insect, invertebrate
Excludes:
marine invertebrate (13.05)
13.0301 Bee
13.0305 Wasp
13.0310 Hornet
13.0315 Ant
13.0320 Spider
   Includes:
   black widow spider, tarantula
13.0325 Scorpion
13.0330 Tick
13.0335 Centipede, millipede
13.0398 Other specified insect, invertebrate
   Includes:
   caterpillar
13.0399 Unspecified insect, invertebrate

13.04 Land mammal
13.0401 Dog
13.0405 Cat
   Includes:
   feral (wild) cat
   Excludes:
   lion, puma, panther, cougar, mountain lion, tiger (13.0455)
13.0410 Rat, guinea pig, mouse
   Includes:
   wild rat
13.0415 Pig, wild boar
13.0420 Sheep, goat
13.0425 Cow, bull, bovine animals
   Includes:
   water buffalo
13.0430 Horse, pony, donkey, mule, ass
   Excludes:
   zebra (13.0445)
13.0435 Baboon, monkey, chimpanzee, gorilla
13.0440 Marsupials
   Includes:
   kangaroo, wallaby
13.0445 Deer, moose, antelope, zebra, wildebeest
13.0450 Hippopotamus
13.0455 Lion, puma, panther, cougar, mountain lion, tiger
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.0460</td>
<td>Bear, grizzly bear, polar bear</td>
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<tr>
<td>13.0465</td>
<td>Elephant</td>
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<tr>
<td>13.0470</td>
<td>Buffalo, bison, African buffalo</td>
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<td>Excludes:</td>
</tr>
<tr>
<td></td>
<td>water buffalo (13.0425)</td>
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<td>13.0498</td>
<td>Other specified land mammal</td>
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<tr>
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<td>marine mammal (13.0515)</td>
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<td>13.0499</td>
<td>Unspecified land mammal</td>
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<td>marine mammal (13.0515)</td>
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<td>Marine animal</td>
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<tr>
<td>13.0501</td>
<td>Shark</td>
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<td>13.0505</td>
<td>Other fishes</td>
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<tr>
<td>13.0510</td>
<td>Sea snake</td>
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<tr>
<td></td>
<td>Includes:</td>
</tr>
<tr>
<td></td>
<td>venomous sea snake</td>
</tr>
<tr>
<td>13.0515</td>
<td>Marine mammal</td>
</tr>
<tr>
<td></td>
<td>Includes:</td>
</tr>
<tr>
<td></td>
<td>dolphin, whale, sea lion, etc.</td>
</tr>
<tr>
<td>13.0520</td>
<td>Jellyfish</td>
</tr>
<tr>
<td>13.0525</td>
<td>Coral</td>
</tr>
<tr>
<td>13.0598</td>
<td>Other specified marine animal</td>
</tr>
<tr>
<td></td>
<td>Includes:</td>
</tr>
<tr>
<td></td>
<td>anemone, cucumber, urchin</td>
</tr>
<tr>
<td>13.0599</td>
<td>Unspecified marine animal</td>
</tr>
<tr>
<td>13.06</td>
<td>Reptile or amphibian</td>
</tr>
<tr>
<td>13.0601</td>
<td>Non-venomous snake</td>
</tr>
<tr>
<td></td>
<td>Excludes:</td>
</tr>
<tr>
<td></td>
<td>sea snake (13.0510)</td>
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<tr>
<td>13.0605</td>
<td>Venomous snake</td>
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<tr>
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<td>Excludes:</td>
</tr>
<tr>
<td></td>
<td>sea snake (13.0510)</td>
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<tr>
<td>13.0610</td>
<td>Snake, unspecified whether venomous or not</td>
</tr>
<tr>
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</tr>
<tr>
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<td>cases not specified whether or not a sea snake</td>
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<tr>
<td>13.0615</td>
<td>Lizard, gekko, goanna</td>
</tr>
<tr>
<td></td>
<td>Includes:</td>
</tr>
<tr>
<td></td>
<td>venomous lizards</td>
</tr>
<tr>
<td>13.0620</td>
<td>Frog, toad</td>
</tr>
<tr>
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<td>Includes:</td>
</tr>
<tr>
<td></td>
<td>venomous frog</td>
</tr>
<tr>
<td>13.0625</td>
<td>Crocodile, alligator</td>
</tr>
</tbody>
</table>
Includes:
  saltwater crocodiles
13.0698 Other specified reptile or amphibian
13.0699 Unspecified reptile or amphibian

13.07 Person(s)
NOTE: These codes apply when a person is the object (e.g., one person falling on another). It does not apply when the person is the subject, as in the case of self-inflicted harm; for those cases, see the Intent data element.
13.0701 Person, self
  Includes:
    cases where person's own body weight is largely responsible for injury
    hitting one's own head with fist
13.0710 Crowd of people
13.0798 Other specified person
13.0799 Unspecified person

13.98 Other specified animal
13.99 Unspecified animal

14 Building, building component, or related fitting

14.01 Building fitting
14.0101 Flush toilet
  Includes:
    part, fixture
14.0105 Pit latrine
14.0110 Bathtub
  Includes:
    part, fixture (e.g., tap)
    fixed or moveable bath
14.0115 Shower
  Includes:
    part, fixture (e.g., tap)
    portable shower
14.0120 Fitted counter, counter-top, kitchen top
  Excludes:
    furniture such as desk, etc. (5.03)
14.0198 Other specified building fitting
14.0199 Unspecified building fitting

14.02 Door, window, or related fitting/feature
14.0201 Door, door sill
Includes:
  door handle
  door with small glass panel
Excludes:
  glass door (14.0205)
14.0205 Glass door
  Includes:
  door that is mostly glass, storm door
14.0210 Security door or gate, fly gate
14.0215 (Burglar) bars on windows
14.0220 Window
  Includes:
  window pane, window sill, window handle
  frosted glass window
14.0225 Exterior window shutters
14.0298 Other specified door or window related fitting/feature
14.0299 Unspecified door or window related fitting/feature

14.03 Floor or related fitting/feature
14.0301 Floor – carpeted
  Excludes:
  loose carpet (5.0401)
14.0305 Floor – tile, brick, concrete
14.0310 Floor – wood
14.0315 Floor – mud, clay, animal dung
14.0398 Other specified floor or relating fitting/feature
14.0399 Unspecified floor or related fitting/feature

14.04 Wall or related fitting/feature
14.0401 Fireplace
14.0405 Built-in barbeque
  Excludes:
  portable barbeque, Weber grill, outdoor cooker, etc. (7.0165)
14.0410 Wall – brick, concrete, tile
14.0415 Wall – wood
14.0420 Wall – mud
14.0498 Other specified wall or related fitting/feature
14.0499 Unspecified wall or related fitting/feature

14.98 Other specified building, building component, or fitting
14.9801 In-ground swimming pool
Includes:
in-ground spa
floor swimming pool
stairs swimming pool
basin edge swimming pool
water chute
diving board
Excludes:
above-ground swimming pool or external spa (14.9802)

14.9802 Above-ground swimming pool, external spa, or hottub
Includes:
inflatable swimming pool for children
above-ground spa outside home
floor swimming pool
stairs swimming pool
basin edge swimming pool
water chute
diving board
Excludes:
in-ground swimming pool (14.9801)
built-in spa bath inside home (14.9801)

14.9803 Equipment for shipping
Includes:
bathing jetty
floating bridge
quay and permanent bridge with equipment
sluice, lock

14.9805 Fence, gate
Excludes:
security gate (14.0210)

14.9810 Moving ramp, escalator
14.9815 Lift, elevator
14.9816 Stairs, steps
Includes:
stair or step covered with ice
steps anywhere (e.g., leading to beach)
Excludes:
moving ramp, escalator (14.9810)

14.9820 Handrail, railing, banister
14.9850 Electrical transmission line in or around building
Excludes:
mains – gas, water, sewerage, steam, hot water, electricity (11.0145)
high-tension overhead transmission line (98.0210)

14.9855 Fittings/pipes for gas, steam, hot water
Excludes:
electrical transmission line (14.9850)
mains – gas, water, sewerage, steam, hot water, electricity
(11.0145)
14.9860 Electrical fixture
Includes:
outlets, receptacles, switches
14.9861 Ducted air-conditioning unit or related fitting
14.9898 Other specified building, building component, or fitting
Includes:
building feature nec
part of building (e.g., balcony, roof)

14.99 Unspecified building, building component, or fitting

15 Ground surface or surface conformation

15.01 Ground surface
Excludes:
swimming pool of any kind (14.9801 or 14.9802)
15.0101 Cliff
15.0105 Slope, ramp
15.0110 Trench, ditch, pit
15.0115 Sewer grate
Includes:
drain grate
15.0120 Open drain, channel
Includes:
storm water drain, monsoon drain
15.0198 Other specified ground surface
15.0199 Unspecified ground surface

15.02 Body of water
15.0201 Man-made well, dug well for underground water
15.0205 Water reservoir
15.0215 Puddle
15.0220 Dam, lake
15.0225 River, stream
15.0230 Swamp, marsh
15.0235 Beach, seashore
Includes:
rocky seashore
15.0240 Open sea
15.0298 Other specified body of water
15.0299 Unspecified body of water
15.98 Other specified surface conformation
   15.9808 Sloping surface nec
   15.9818 Even surface nec
   15.9828 Uneven surface nec
   15.9898 Other specified surface conformation

15.99 Unspecified surface conformation

16 Material nec

16.01 Natural material
   16.0101 Snow, ice
   16.0105 Natural grass
      Excludes:
      artificial grass (16.0201)
   16.0108 Rock, stone nec
   16.0110 Wood – timber, board, splinter nec
   16.0115 Gravel, soil, sand nec
   16.0119 Hay, straw
      Includes:
      bale(s) of hay
   16.0120 Other grain in bulk
      Includes:
      grain in silo
   16.0120 Water
      Includes:
      flood
      rain
   16.0198 Other specified natural material
      Includes:
      solar rays
      wind
      cold
      heat
      volcanic activity
      earthquake
      avalanche, landslide
      stroke of lightning
   16.0199 Unspecified natural material

16.02 Manufactured/industrial material
   16.0201 Artificial grass
   16.0205 Bitumen, asphalt
      Processed surface, outdoors
Includes:
- asphalt surface, bitumen
- kerbstone
- gravel surface
- cement surface
- processed stone surface (e.g. marble floor, flagstones, paving stones)
- ceramic tile surface
- wooden surface
- plastic/synthetic surface

16.0207 **Elements of stone**
Includes:
- prepared stone
- stoneslab

16.0208 **Brick, concrete, concrete block**
16.0210 **Molten metal**
16.0218 **Metal – sheet, part, piece etc.**
16.0228 **China, ceramics – sheet, part, piece etc.**
16.0230 **Molten glass**
16.0238 **Glass – sheet, piece, shard, etc.**
Excludes:
- glass door (14.0205)
- glass window (14.0298)
- windshield (1.0715)

16.0240 **Liquid or frozen gas (with temperature < 0°C/32°F)**
16.0258 **Plastic**
Excludes:
- plastic bag (98.9880)

16.0268 **Paper, cardboard, etc.**
Includes:
- rolls of paper

16.0270 **Insulation material**
Includes:
- foam insulation
- glass wool, rock wool

16.0298 **Other specified manufactured/industrial material**
16.0299 **Unspecified manufactured/industrial material**

16.98 Other specified material
16.99 Unspecified material

17 **Fire, flame, smoke**
17.01 **Fire, flame**
17.0101 Burning oil
17.0105 Other burning liquid
Excludes:
- molten metal (16.0210)
- molten glass (16.0230)
- smoke from burning liquid (17.02)

17.0110 Burning gas nec
Excludes:
carbon monoxide (21.9810)

17.0115 Controlled fire, flame in building or structure
Includes:
- fire in fireplace
Excludes:
campfire (17.0120)

17.0120 Controlled fire, flame, not in building or structure
Includes:
campfire
open fire for cooking
Excludes:
- fire in fireplace (17.0115)

17.0125 Uncontrolled fire, flame in building or structure
Includes:
burning building
burning fittings, furniture, etc.

17.0130 Uncontrolled fire, flame not in building or structure
Includes:
forest fire

17.0198 Other specified fire or flame
Excludes:
molten metal (16.0210)
molten glass (16.0230)
- smoke from burning oil (17.02)

17.0199 Unspecified fire or flame

17.02 Smoke
Excludes:
- motor vehicle exhaust gas (21.9801)
carbon monoxide nec (21.9810)

17.99 Unspecified as to whether fire, flame, or smoke caused the injury
Includes:
cases where it is obvious that fire or flame caused the injury (e.g. burns),
however, the actual cause is not specified.
18 Hot object/substance nec

Excludes:
burning object/substance (17)
hot food or drink (19)

18.01 Hot liquids

18.0101 Hot tap water
Includes:
hot water in bath, bucket, or tub
hot water from hose or showerhead

18.0105 Boiling water (other than tap water)
Includes:
water heated on stove
Excludes:
hot coffee, tea, or other hot drink (19.0115)

18.0198 Other specified hot liquid
Excludes:
burning liquid (17.0105)
molten metal or glass (16.0210 or 16.0230)
hot drink (19.0115)

18.0199 Unspecified hot liquid

18.02 Hot air or gas

18.0201 Steam, hot vapour

18.0298 Other specified hot air or gas
Excludes:
motor vehicle exhaust gas (21.9801)
carbon monoxide (21.9810)
smoke (17.02)

18.0299 Unspecified hot air or gas

18.98 Other specified hot object/substance

18.99 Unspecified hot object/substance

19 Food, drink

19.01 Food, drink, or related product

19.0101 Stroopwafels

19.0103 Chocolate, sweets
Includes:
sweets
chewing-gum
19.0105 Hot cooking oil or fat
   Excludes:
   burning oil (17.0101)

19.0110 Solid food—hot
   Excludes:
   vomitus (98.9870)
mushroom (13.0113)

19.0115 Hot drink
   Includes:
   coffee, tea
   Excludes:
   vomitus (98.9870)

19.0120 Solid food—cold
   Excludes:
   vomitus (98.9870)
mushroom (13.0113)

19.0120 Meat and poultry
   Includes:
   bone

19.0121 Fish and shellfish
   Includes:
   fishbone

19.0122 Milk and egg products
   Includes:
   milk, cream
   cheese
   ice cream
   egg

19.0123 Vegetables, nuts
   Includes:
   root-vegetables
   Excludes:
   mushroom (13.0113)
   fruit (13.0130)

19.0125 Cold drink—non-alcoholic
   Excludes:
   vomitus (98.9870)

19.0130 Drink—alcoholic
   Includes:
   beer, wine, whiskey, brandy, vodka, sherry, etc.
   Excludes:
   vomitus (98.9870)
methylated spirits (21.0215)

19.98 Other specified food, drink
Includes:
- frozen food
- bread
- biscuits
- cakes, scones
- processed pet food or animal feed
Excludes:
- food dye (21.9860)
- animal bones, carcasses to be used as pet food (98.9878)

19.99 Unspecified food, drink

20 Pharmaceutical substance for human use, ie. drug, medicine

Includes:
- “Street” drug/drug for recreational use
Excludes:
- pharmaceutical substance for veterinary use (21)
- industrial/commercial product intended for non-domestic use (21)
- non-pharmaceutical chemical substance for domestic use (21)
- fuel or solvent (21)
- pesticide or other agricultural/horticultural product (21)
- cosmetic/personal hygiene product (9.04)
- food or drink (19)

20.01 Analgesic, antipyretic, antirheumatic

Excludes:
- heroin (20.24)
  20.0101 Paracetamol only preparation
  20.0105 Aspirin only preparation
  20.0110 Paracetamol in combination with aspirin only
  20.0115 Paracetamol in combination with codeine and/or other substances
  20.0120 Aspirin in combination with codeine and/or other substances
  20.0125 Codeine only preparation
  20.0130 Morphine
  20.0135 Methadone
  20.0140 Oxycodone
  20.0145 Ibuprofen
  20.0150 Indomethacin
  20.0158 Other nonsteroidal anti-inflammatory drug (NSAID)
  20.0198 Other specified analgesic, antipyretic or antirheumatic
  20.0199 Unspecified analgesic, antipyretic or antirheumatic

20.02 Antimicrobial, anti-infective agent

Excludes:
- antibiotics topically used for ear, nose, throat, and eye (20.18)
20.0201 Antibacterial agent containing penicillin
20.0202 Antibacterial agent containing tetracycline
20.0203 Antibacterial agent containing cefalosporins and other \(\beta\)-lactam
20.0204 Antibacterial agent containing substance from chloramphenical group
20.0205 Antibacterial agent containing macrolides
20.0206 Antibacterial agent containing aminoglycosides
20.0207 Antibacterial agent containing rifamycins
20.0218 Other antibacterial agent
20.0219 Unspecified antibacterial agent
20.0220 Antifungal antibiotic
20.0225 Sulfonamides
20.0230 Antimycobacterial drugs
20.0235 Antituberculotic, antileprotic
20.0240 Antimalarial drug
20.0248 Other antiprotozoal agent
20.0250 Antiviral agent
20.0255 Anthelmintic agent
20.0260 Ectoparasiticide preparation
  Includes:
  scabicide
20.0298 Other specified antimicrobial, anti-infective agent
  Excludes:
  antibacterial agent nec (20.0218)
  vaccine (20.22)
20.0299 Unspecified antimicrobial, anti-infective agent
  Excludes:
  antibacterial agent nos (20.0219)

20.03 Cold and cough preparation
  Excludes:
  analgesic, antipyretic, or antirheumatic mentioned in section 20.01

20.04 Asthma therapy
  20.0401 Aminophylline/theophylline
  20.0405 Terbutaline and other beta-2 antagonist
  20.0410 Other beta antagonist
  20.0498 Other specified asthma therapy
  20.0499 Unspecified asthma therapy

20.05 Antihistamine
  20.0501 Diphenhydramine
  20.0598 Other specified antihistamine
  20.0599 Unspecified antihistamine
### 20.06 Antidepressant
- 20.0601 Amitriptyline
- 20.0605 Desipramine
- 20.0610 Doxepin
- 20.0618 Other cyclic antidepressant
- 20.0620 Lithium
- 20.0630 MAO inhibitors
- 20.0640 Selective serotonin receptor inhibitor (SSRI)
- 20.0698 Other specified antidepressant
  - Excludes:
    - cyclic antidepressant (20.0618)
- 20.0699 Unspecified antidepressant

### 20.07 Sedative, hypnotic, antipsychotic
- 20.0701 Barbiturate
- 20.0705 Benzodiazepine
- 20.0710 Chloral hydrate
- 20.0715 Phenothiazine
- 20.0798 Other specified sedative, hypnotic, antipsychotic
- 20.0799 Unspecified sedative, hypnotic, antipsychotic

### 20.08 Anticonvulsant
- 20.0805 Carbamazepine
- 20.0810 Phenytoin
- 20.0815 Succinimides
- 20.0820 Valproic acid
- 20.0898 Other specified anticonvulsant
- 20.0899 Unspecified anticonvulsant

### 20.09 Cardiovascular drug
- 20.0901 ACE inhibitor
- 20.0905 Alpha blocker
- 20.0910 Antiarrhythmics
- 20.0915 Antihypertensive
- 20.0920 Beta blocker
- 20.0925 Nitroglycerin
- 20.0998 Other specified cardiovascular drug
- 20.0999 Unspecified cardiovascular drug

### 20.10 Diuretic
- 20.1001 Furosemide
- 20.1005 Thiazide
- 20.1098 Other specified diuretic
- 20.1099 Unspecified diuretic

### 20.11 Anticoagulant
20.1105  Heparin
20.1110  Warfarin
   Excludes:
      rat poison (21.0405)
20.1198  Other specified anticoagulant
20.1199  Unspecified anticoagulant

20.12  Gastrointestinal preparation
20.1201  Antacid, antiflatulent, drug for treatment of peptic ulcer
   Includes:
      Aluminium hydroxide, calcium carbonate, magnesium carbonate,
      magnesium trisilicate, sodium bicarbonate
20.1205  Antispasmodic, anticholinergic, propulsive
20.1210  Anti-emetic, anti-nauseant preparation
20.1215  Laxative
20.1220  Antidiarrhoecal, intestinal anti-inflammatory, intestinal anti-
      infective agent
   Includes:
      Loperamide, kaolin
20.1225  Stomatological preparation, mouth preparation
20.1298  Other specified gastrointestinal preparation
20.1299  Unspecified gastrointestinal preparation

20.13  Diagnostic agent
20.1301  Radiographic agent
20.1305  Agent for urinalysis
20.1398  Other specified diagnostic agent
20.1399  Unspecified diagnostic agent

20.14  Anti-neoplastic agent
20.1401  Cytostatic preparation
20.1405  Preparations for endocrine therapy
20.1410  Immunomodulating preparation
20.1498  Other specified anti-neoplastic agent
20.1499  Unspecified anti-neoplastic agent

20.15  Anesthetic
20.1501  Nitrous oxide
20.1508  Other inhalation anesthetic
20.1510  Ketamine
20.1515  Intravenous anesthetic
20.1520  Local and topical anesthetic
20.1530  Therapeutic gases
   Includes:
      oxygen
Excludes:
carbon dioxide (21.9805)
20.1598 Other specified anesthetic
Excludes:
inhalation anesthetic nec (20.1508)
20.1599 Unspecified anesthetic

20.16 Muscle relaxant

20.17 Narcotic antagonist

20.18 Eye/ear/nose/throat preparation
20.1801 Nasal preparation
Includes:
topical antibiotic
20.1810 Ophthalmic preparation
Includes:
glaucoma therapies
topical antibiotic
Excludes:
cleaning agent for contact lenses (9.0401)
topical steroid for eyes (20.1830)
20.1820 Otic preparation
Includes:
topical antibiotic
Excludes:
topical steroid for ears (20.1830)
20.1830 Topical steroid for eye/ear/nose/throat
Includes:
mouth, gums and tongue
20.1840 Lozenges with or without local anesthetic for throat
20.1898 Other specified throat preparation
Includes:
mouth, gums and tongue
topical antibiotic
20.1899 Unspecified throat preparation
Includes:
mouth, gums and tongue

20.19 Topical preparation
Includes:
preparations other than topical steroids used for eye, ear, nose, and throat
Excludes:
topical steroids for eye, ear, nose, and throat (20.18n)
20.1901 Acne preparation
Excludes:
  systemic antibiotic (20.02)
20.1905  Boric acid, borates
20.1910  Calamine lotion
20.1915  Camphor/methyl salicylate
20.1920  Iodine or iodide antiseptic
20.1928  Other topical antiseptic
20.1930  Podophyllin
20.1935  Silver nitrate
20.1940  Topical steroid
20.1945  Topical steroid with antibiotic
20.1950  Wart preparation
20.1998  Other specified topical preparation
  Excludes:
    topical antiseptic nec (20.1928)
20.1999  Unspecified topical preparation

20.20  Vitamin or dietary supplement
  20.2001  (Multi-)vitamin with iron
  20.2005  (Multi-)vitamin without iron
  20.2098  Other specified vitamin or dietary supplement
  20.2099  Unspecified vitamin or dietary supplement

20.21  Electrolyte or mineral
  20.2110  Calcium
  20.2115  Fluoride
  20.2120  Iron
    Includes:
      iron preparation provided to pregnant women
    Excludes:
      multi-vitamin with iron (20.2001)
  20.2125  Potassium
  20.2130  Sodium
  20.2198  Other specified electrolyte or mineral
  20.2199  Unspecified electrolyte or mineral

20.22  Serum, toxoid, vaccine
  20.2201  Diphtheria
  20.2205  Measles
  20.2210  Mumps
  20.2215  Rubella
  20.2220  Polio
  20.2225  Pertussis
  20.2230  Tetanus
  20.2235  Cholera
  20.2240  Typhoid
20.2245  Yellow fever
20.2250  Hepatitis (A or B)
20.2255  Influenza
20.2260  Combination vaccine
20.2265  Anti-snake bite serum
20.2298  Other specified serum, toxoid, vaccine
20.2299  Unspecified serum, toxoid, vaccine

20.23  Hormone, hormone antagonist, contraceptive
20.2301  Oral or injectable contraceptive
20.2302  Other oestrogen, progesterone or progestogen preparation
20.2303  Antigonadatrophin, anti-oestrogen, antiandrogen preparation
20.2305  Spermicidal contraceptive
20.2308  Other specified preparation containing sex hormones
20.2315  Insulin or oral hypoglycaemic (antidiabetic) drug
20.2320  Corticosteroids
20.2325  Thyroid hormone or substitute
20.2326  Antithyroid drugs
20.2398  Other specified hormone, hormone antagonist, contraceptive
   Excludes: preparation containing sex hormones nec (20.2308)
20.2399  Unspecified hormone, hormone antagonist, contraceptive

20.24  “Street”/recreational drug
   Excludes: barbiturate (20.0701)
20.2401  Amphetamine
20.2405  Cocaine, crack
20.2410  Ecstacy
20.2415  Heroin
20.2420  LSD
20.2425  Marijuana, hashish, dagga, ganja
20.2498  Other specified “street”/recreational drug
20.2499  Unspecified “street”/recreational drug

20.98  Other specified pharmaceutical substance for human use
20.9801  Allopurinol
20.9805  L-dopa or related drug
20.9810  Diet aid
20.9818  Other general nutrient, dietary supplement
20.9820  Detoxifying agent, antidote
20.9825  Disulfram
20.9830  Ergot alkaloid
20.9835  Nicotine pharmaceutical
20.9898  Other specified pharmaceutical substance for human use
20.99  Unspecified pharmaceutical substance for human use

21  Other non-pharmaceutical chemical substance

Excludes:
cosmetics, etc. (9.04)
esential oils, oils used in aromatherapy (9.0470)

21.01  Glue or adhesive

21.0101  Contact glue
21.0105  Epoxies
21.0110  Super glue
21.0198  Other specified glue or adhesive
21.0199  Unspecified glue or adhesive

21.02  Fuel or solvent

21.0201  LPG gas, natural gas, methane gas, propane gas, butane gas
21.0205  Petrol, diesel, gasoline
21.0210  Lubricating oils, motor oil
21.0215  Methylated spirits
21.0220  Kerosene/paraffin
21.0225  Turpentine
21.0238  Alcohol nec
  Includes:
  butyl alcohol, isopropyl alcohol, propyl alcohol, methanol, ethanol
  Excludes:
  methylated spirits (21.0215)
  alcoholic beverage (19.0130)
21.0298  Other specified fuel or solvent
21.0299  Unspecified fuel or solvent

21.03  Paint, coating or stripping agent

21.0301  Paint, varnish, stain
21.0305  Paint thinner, paint stripper
21.0310  Rust remover
21.0398  Other specified coating or stripping agent
21.0399  Unspecified coating or stripping agent

21.04  Pet (veterinary) product, pesticide, herbicide

Excludes:
pet food (19.98)
21.0401  Pet (veterinary) product
  Includes:
  dog or cat shampoo
  flea dip, flea powder
21.0405  Mouse, rat poison
21.0406  Moth repellent
Includes:
naphthalene
21.0410  Organophosphate nec
21.0415  Synthetic pyrethroids
21.0418  Other insecticide
  Includes:
surface spray, spray for flying insect, etc.
21.0425  Fungicide
  Excludes:
those included under pet product (21.0401)
21.0430  Weed killer, herbicide
21.0498  Other specified pesticide, herbicide
  Excludes:
insecticide nec (21.0418)
21.0499  Unspecified pesticide, herbicide

21.05  Cleaning agent
  Excludes:
  personal use item (9.04n)
  21.0501  Detergent for dishes or dishwasher, rinse aid
  21.0505  Laundry detergent or additive, fabric softener, stain remover
  21.0510  Dry cleaning agent nec
    Excludes:
      household laundry detergent, etc. (21.0505)
      bleach (21.0515)
  21.0515  Bleach, soaking agent
  21.0520  Chlorine
  21.0525  Lye soap
  21.0530  Disinfectants
    Includes:
      phenol, pine oil, hypochlorite
    Excludes:
      bleach (21.0515)
  21.0535  Drain cleaners
    Excludes:
      bleach (21.0515)
  21.0598  Other specified cleaning agent
  21.0599  Unspecified cleaning agent

21.06  Reactant used in chemical industry process, industry manufacturing nec
  Includes:
  battery acid

21.07  Corrosive chemicals
  21.0701  Caustic soda (lye)
21.0705 Slake
21.0710 Degreasing agent
21.0715 Ammonia
21.0720 Other alkaline (basic) products
21.0725 Hydrofluoric acid
21.0730 Sulphuric acid
21.0735 Nitric acid
21.0740 Hydrochloric acid
21.0745 Strong acid, other
21.0750 Organic peroxides
21.0798 Other specified corrosive chemical
21.0799 Unspecified corrosive chemical

21.98 Other specified non-pharmaceutical chemical substance
21.9801 Motor vehicle exhaust gas
21.9805 Carbon dioxide nec
21.9810 Carbon monoxide nec
   Excludes:
   carbon monoxide in motor vehicle exhaust gas (21.9801)
21.9815 Mercury
21.9820 Lead
21.9828 Heavy metal nec
   Includes:
   barium, cadmium, copper, selenium, thallium
   arsenic
   Excludes:
   mercury (21.9815)
   lead (21.9820)
   pesticides containing arsenic (21.04)
21.9830 Plant food or fertilizer, plant hormones
21.9840 Fabric dye
21.9850 Leather dye
21.9860 Food dye
21.9870 Photographic products
   Includes:
   developers/fixing/stop baths
   photographic coating fluids
   Excludes:
   photographic equipment (eg., camera, 7.0610)
21.9870 Traditional medicine, folk remedy nec
21.9898 Other specified non-pharmaceutical chemical substance

21.99 Unspecified non-pharmaceutical chemical substance
40 Medical/surgical device

NOTE: These codes were mostly derived from ICD-10.

40.01 General hospital or personal use device
   40.0101 Hypodermic needle/syringe
   40.0105 Glass thermometer with mercury
   40.0108 Other type of thermometer
   40.0110 Device, hoist for lifting patients
      Excludes:
      hoist machinery used in industry (11.0125)
   40.0198 Other specified general hospital or personal use device
   40.0199 Unspecified general hospital or personal use device

40.02 General or plastic surgery device
40.04 Anaesthesiology device
40.05 Cardiovascular device
40.06 Ear/nose/throat device
40.07 Gastroenterology device
40.08 Neurological device
40.09 Obstetric or gynaecological device
40.10 Ophthalmic device
40.11 Orthopaedic device
40.12 Radiological device
40.13 Physical medicine device
40.98 Other specified medical/surgical device
40.99 Unspecified medical/surgical device

41 Laboratory equipment

41.01 Separator
41.02 Analysis equipment for tests
41.03 Test tube
41.04 Glass tube
41.05 Microscope
41.98 Other specified laboratory equipment
41.99 Unspecified laboratory equipment

98 Other specified object/substance

98.01 Law enforcement equipment
   Excludes:
   weapons, including firearms (12)
   98.0101 Handcuff
   98.0198 Other specified law enforcement equipment
      Includes
      "anti-protest" gear
98.02 **Public use item**

98.0201 Fire hydrant

Excludes:

fire extinguisher (11.0530)

98.0205 Telephone pole, stobie pole

Includes:

pole holding telephone lines, power lines, or street lights

98.0210 High-tension overhead power line

Excludes:

electrical transmission line in or around building (14.9850)

98.0298 Other specified public use item

Includes:

pedal cycle rack

bus shelter

utility box

98.0299 Unspecified public use item

---

98.02 **Public use item, stationary equipment on roads, etc.**

98.0201 Fire hydrant

Excludes:

fire extinguisher (11.0530)

98.0205 Telephone pole, stobie pole

Includes:

pole holding telephone lines, power lines, or street lights

98.0207 Telephone box

98.0210 High-tension overhead power line

Excludes:

electrical transmission line in or around building (14.9850)

98.0211 Pylon, lamp standard

98.0220 Rail on/by road, sidewalk

98.0225 Crash barrier

98.0230 Road block, barrier

98.0235 Road hump (“sleeping policeman”)

98.0240 Road chicane/traffic calming measure, other (e.g. trough, pillar)

98.0245 Manhole cover

98.0250 Outleg grating

98.0255 Road sign, traffic sign

98.0260 Advertising sign

98.0265 Letter box, pillar box

98.0270 Pedal cycle rack

98.0275 Bench (fixed)
98.0280  Bus shelter
98.0285  Utility box
98.0298  Other specified public use item, stationary equipment on roads, etc.
98.0299  Unspecified public use item, stationary equipment on roads, etc.

98.03  Camping equipment
  98.0301  Tent
    Excludes:
    play tent (6.0275)
  98.0398  Other specified camping equipment
    Includes:
    camping/propane stove
    propane lamp
    Excludes:
    air/camping mattress (5.0115)
    free-standing kerosene cooking stove (7.0155 or 7.0156)
  98.0399  Unspecified camping equipment

98.04  Fastening, binding, or securing item nec
  Excludes:
  zipper, snap (9.0110)
  98.0401  Rope, string, or twine
  98.0405  Barbed wire
  98.0408  Other wire
  98.0410  Chain
  98.0498  Other specified fastening, binding, or securing item
  98.0499  Unspecified fastening, binding, or securing item

98.05  Explosive material or flammable object/substance nec
  98.0501  Fireworks
    Includes:
    sparklers
  98.0505  Explosive
    Includes:
    dynamite, blasting caps, homemade bombs
    incendiary device
  98.0598  Other specified explosive material or flammable object/substance
    Includes:
    explosive material in dump, factory, grain store, munitions
    explosive gas
  98.0599  Unspecified explosive material or flammable object/substance
98.06  Stationary equipment in recreational grounds, gardens, etc.
   98.0601  Sculpture, statue
   98.0605  Tombstone
   98.0610  Well cover
   98.0615  Flagpole
   98.0620  Flower trough
   98.0625  Garden frame
   98.0630  Green house
   98.0635  Garden poole
   98.0640  Plants in pot
   98.0645  Garden poles, sticks
   98.0650  Flower pot
   98.0655  Potting soil
   98.0698  Other specified stationary equipment in recreational grounds, gardens, etc.
   98.0699  Unspecified stationary equipment in recreational grounds, gardens, etc.

98.07  Musical instruments
   98.0701  Piano
   98.0705  Electric guitar
   98.0710  Wind instrument
   98.0798  Other specified musical instrument
   98.0799  Unspecified musical instrument

98.08  Industrial packaging
   98.0801  Loading pallet
   98.0805  Packet goods
   98.0810  Container
   98.0815  Barrel
   98.0820  Tarpaulin
   98.0898  Other specified industrial packaging
   98.0899  Unspecified industrial packaging

98.09  Other packaging, container, part of packaging
   98.0901  Childproof packaging
   98.0905  Tube
   98.0910  Foil of aluminium, plastic, etc.
   98.0915  Wrapping paper, other packaging of paper
   98.0920  Cord, string
   98.0920  Adhesive tape
   98.0925  Rubber band
   98.0998  Other specified packaging, container, part of packaging
   98.0999  Unspecified packaging, container, part of packaging

98.10  Isotopes, rays
98.1001 Welding light
98.1005 X-rays
98.1010 Electric current
98.1015 Isotopes
98.1098 Other specified isotopes, rays
98.1099 Unspecified isotopes, rays

98.98 Other specified object/substance
98.9801 High-pressure jet
   Includes:
   water from a fire hydrant/hose
   fluid from a pressure-washer
98.9805 Laser light and equipment
   Excludes:
   laser pointer
98.9810 Laser pointer
   Excludes:
   laser light and equipment
98.9828 Sharp object nec
98.9838 Blunt object nec
98.9848 Motor, engine nec
   Excludes:
   vehicle engine (1.0725)
98.9850 Dry cell battery
   Excludes:
   battery for vehicle (1.0710)
98.9855 Disc battery
   Includes:
   alkaline, lithium, nickel cadmium battery
   Excludes:
   vehicle battery (1.0710)
98.9858 Battery nec
   Excludes:
   battery for vehicle (1.0710)
98.9860 Animal cage
98.9870 Gastric content
   Includes:
   vomitus
98.9875 Excrement (human/animal)
98.9878 Blood, carcass, body, bone nec (human/animal)
98.9880 Plastic bag
98.9885 Garbage, litter
98.9888 Environmental pollution nec
98.9898 Other specified object/substance
| 99 | Unspecified object/substance |
### Annex 2  
**ISS-coding manual: Changes of the ICECI-manual according to the HLA V2000 manual**

#### Place of occurrence

<table>
<thead>
<tr>
<th>Code in ISS-manual</th>
<th>Changes compared to ICECI-manual</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1 – 1.99</td>
<td>Extra codes are added. Changes are made according to the division in the HLA V2000 manual.</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>6.1, 6.2 and 6.3</td>
<td>Originally one code in ICECI, now divided into three codes. Changes are made according to the division in the HLA V2000 manual.</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>8.3</td>
<td>Extra code is added, according to the HLA V2000 manual.</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>11.4, 11.5 and 11.6</td>
<td>Originally one code in ICECI, now divided into three codes. Changes are made according to the division in the HLA V2000 manual.</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>12.8</td>
<td>Extension of the inclusion criteria (ice-cap, glacier)</td>
<td>HLA V2000 is more specific</td>
</tr>
</tbody>
</table>

#### Mechanism of injury

<table>
<thead>
<tr>
<th>Code in ISS-manual</th>
<th>Changes compared to ICECI-manual</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.21</td>
<td>Extension of the inclusion criteria</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>4.11 and 4.12</td>
<td>Original one code in ICECI, now divided into two codes. Changes are made according to the division in HLA V2000</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>7</td>
<td>Original less codes in ICECI: 7.1 Acute over-exertion, over-extension 7.8 Other specified physical over-exertion 7.9 Unspecified physical over-exertion Changes are made according to the division in HLA V2000</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>8</td>
<td>Shortened by deleting the sub-codes of 8.1, 8.2, 8.3, 8.4 and 8.8</td>
<td>This data-element does not exist in HLA V2000. The division of ICECI is too specific for the ISS-manual</td>
</tr>
<tr>
<td>9.12, 9.13, 9.14</td>
<td>New codes added. Changes are made according to the division in the HLA V2000 manual</td>
<td>HLA V2000 is more specific</td>
</tr>
</tbody>
</table>
Additional questions to the IPP contact persons:
The data-element “Complications of medical or surgical care” (code 20) does not exist in the HLA V2000 manual, because it is not an injury. However, it is inserted in the ICECI since it is an external cause of injuries. Should this data-element be inserted to the ISS-coding manual?
The same question as above for the data-element “Neglect, abandonment, or lack of necessities of life” (code 98.6)

Activity when injured

<table>
<thead>
<tr>
<th>Code in ISS-manual</th>
<th>Changes compared to ICECI-manual</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.n</td>
<td>Original less codes in ICECI:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.1 Travelling to/from unpaid work</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.2 Travelling in the course of unpaid work</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.8 Other specified unpaid work</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.9 Unpaid work, unspecified</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Changed according to the division in HLA V2000. 2.6 and 2.7 are added from the inclusion criteria from ICECI.</td>
<td></td>
</tr>
<tr>
<td>5.n</td>
<td>No sub-codes in ICECI present. Changes are made according to the division in HLA V2000</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>6.n</td>
<td>No sub-codes in ICECI present. Changes are made according to the division in HLA V2000</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>98.n</td>
<td>No sub-codes in ICECI present. Changes are made according to the division in HLA V2000</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>Code in ISS-manual</td>
<td>Changes compared to ICECI-manual</td>
<td>Reason</td>
</tr>
<tr>
<td>-------------------</td>
<td>----------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>1.02 and 1.03</td>
<td>ICECI codes are combined</td>
<td>ICECI is too specific</td>
</tr>
<tr>
<td>1.04</td>
<td>Code is deleted</td>
<td>ICECI code is not applicable in Europe</td>
</tr>
<tr>
<td>Gaelic football</td>
<td>Extra code is added</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>1.09, 1.10 and 1.11</td>
<td>ICECI codes are combined in one code</td>
<td>ICECI is too specific</td>
</tr>
<tr>
<td>1.16</td>
<td>Code is deleted</td>
<td>ICECI code is not applicable in Europe</td>
</tr>
<tr>
<td>2.04, 2.06 and 2.09</td>
<td>Codes are deleted</td>
<td>ICECI is too specific</td>
</tr>
<tr>
<td>5.01, 5.02 and 5.03</td>
<td>ICECI codes are combined in one code</td>
<td>ICECI is too specific</td>
</tr>
<tr>
<td>5.09</td>
<td>Extra code is added</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>Skiing – slalom</td>
<td>Extra code is added</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>6.15</td>
<td>Code is deleted</td>
<td>ICECI code is not applicable in Europe</td>
</tr>
<tr>
<td>7.04-7.07</td>
<td>Codes are changed so that the distance is no longer an issue</td>
<td>ICECI is too specific</td>
</tr>
<tr>
<td>9.01</td>
<td>Three new codes have been added</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>11.02</td>
<td>Extra code is added</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>Road bowling</td>
<td>Extra code is added</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>11.09</td>
<td>Four extra codes have been added</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>Swordplay</td>
<td>Extra code is added</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>12.13</td>
<td>Code is deleted</td>
<td>ICECI is too specific</td>
</tr>
<tr>
<td>15.06</td>
<td>Extra code is added</td>
<td>Distinction between indoor and outdoor climbing</td>
</tr>
<tr>
<td>16.02</td>
<td>Tree new codes have been added</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>Roller skiing</td>
<td>Code has been added</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>17.11 and 17.12</td>
<td>Codes are deleted</td>
<td>ICECI is too specific</td>
</tr>
<tr>
<td>18.01-18.32</td>
<td>Codes are deleted and replaced by four new codes</td>
<td>ICECI is too specific</td>
</tr>
<tr>
<td>Kite-gliding</td>
<td>New codes are added</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>Flying hot air balloon</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bungee jumping</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor flying</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20.01-20.99</td>
<td>Codes are deleted</td>
<td>ICECI is too specific. Codes overlap with other variables (activity).</td>
</tr>
</tbody>
</table>
### Type of injury

<table>
<thead>
<tr>
<th>Code in ISS-manual</th>
<th>Changes compared to ICECI-manual</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 and 3</td>
<td>Originally one code in ICECI, now divided into two codes. Changes are made according to the division in HLA V2000</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>10 and 11</td>
<td>Originally one code in ICECI, now divided into two codes.</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>13, 16 and 17</td>
<td>Extra codes are added.</td>
<td>HLA V2000 is more specific</td>
</tr>
</tbody>
</table>

### Part of body injured

<table>
<thead>
<tr>
<th>Code in ISS-manual</th>
<th>Changes compared to ICECI-manual</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2</td>
<td>New codes added. Changes are made according to the division in HLA V2000</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>1.3</td>
<td>New code added. Changes are made according to the division in HLA V2000</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>1.4</td>
<td>New code added. Changes are made according to the division in HLA V2000</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>3.2n, 3.3n, 3.4n</td>
<td>New codes added. Changes are made according to the division in HLA V2000</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>4.n</td>
<td>New codes added. Changes are made according to the division in HLA V2000</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>5.n</td>
<td>New codes added. Changes are made according to the division in HLA V2000</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>7.2</td>
<td>New code added. Changes are made according to the division in HLA V2000</td>
<td>HLA V2000 is more specific</td>
</tr>
<tr>
<td>9.8</td>
<td>New code added. Changes are made according to the division in HLA V2000</td>
<td>HLA V2000 is more specific</td>
</tr>
</tbody>
</table>

**Additional questions to the IPP contact persons:**
Code 9.8 (body part, other specified) is added according to the division in HLA V2000. However, does there exist other body part which are not already mentioned in de manual?
**Object/substance producing injury**

We compared the existing data-elements of ICECI and HLA V2000. Data-elements present in HLA V2000 but not in ICECI are added (underlined) to the ISS-coding manual. We compared only the main lines, because it is unfeasible to compare the branch lines.

Three strategies are followed:

When a data-element from HLA V2000 does not exist in ICECI, it is added by creating a new main code and, when possible, new sub-codes (for example: code 98.07 Musical instrument).

Since we followed the classification and division of the ICECI, it was sometimes not possible to create new sub-codes. In that case, the sub-codes of HLA V2000 were added to the inclusion criteria (for example code 10.0340 Equipment for athletics, incl. tracks).

In a very few cases, data-elements from ICECI are replaced by data-elements from HLA V2000.

<table>
<thead>
<tr>
<th>Code in ISS-manual</th>
<th>Changes compared to ICECI-manual</th>
<th>Comparable data-element in HLA V2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.03n</td>
<td>New codes</td>
<td>Safety equipment at sea (K44)</td>
</tr>
<tr>
<td>5.05n</td>
<td>New codes</td>
<td>Garden furniture (F20)</td>
</tr>
<tr>
<td>5.06n</td>
<td>New codes</td>
<td>Household linen (F41)</td>
</tr>
<tr>
<td>6.0345, 6.0398</td>
<td>Extension of the inclusion criteria</td>
<td>Stationary equipment in amusement park, etc. (B03)</td>
</tr>
<tr>
<td>7.0510</td>
<td>Replaced</td>
<td>Tools for needlework (H51)</td>
</tr>
<tr>
<td>7.0620, 7.0625, 70630, 7.0635</td>
<td>New codes</td>
<td>Optical equipment (M10)</td>
</tr>
<tr>
<td>9.09n</td>
<td>New code</td>
<td>Carrying equipment, luggage (P80)</td>
</tr>
<tr>
<td>9.9835</td>
<td>New code</td>
<td>Keys (P6910)</td>
</tr>
<tr>
<td>10.0230</td>
<td>New code</td>
<td>Ski stick (N11)</td>
</tr>
<tr>
<td>10.0340</td>
<td>New code, sub-codes in HLA V2000 are included in the inclusion criteria</td>
<td>Equipment for athletics (N21, excl. N2124)</td>
</tr>
<tr>
<td>10.0345</td>
<td>New code, sub-codes in HLA V2000 are included in the inclusion criteria</td>
<td>Horse ride equipment (N80)</td>
</tr>
<tr>
<td>10.0350</td>
<td>New code, sub-codes in HLA V2000 are included in the inclusion criteria</td>
<td>Angling equipment (N82) + Fishing tackle (H20)</td>
</tr>
<tr>
<td>10.0355</td>
<td>New code, sub-codes in HLA V2000 are included in the inclusion criteria</td>
<td>Equipment for clay pigeon shooting (N84)</td>
</tr>
<tr>
<td>10.0360</td>
<td>New code, sub-codes in HLA V2000 are included in the inclusion criteria</td>
<td>Climbing equipment (N87)</td>
</tr>
<tr>
<td>10.0440</td>
<td>New code</td>
<td>Ski binding (N12)</td>
</tr>
<tr>
<td>11.0145</td>
<td>Extension of the inclusion criteria</td>
<td>Water, ventilation, sanitary and industrial water/steam installation, equipment (D00)</td>
</tr>
<tr>
<td>11.0145</td>
<td>Extension of the inclusion criteria</td>
<td>Stationary electric installations (D40)</td>
</tr>
<tr>
<td>Code in ISS-manual</td>
<td>Changes compared to ICECI-manual</td>
<td>Comparable data-element in HLA V2000</td>
</tr>
<tr>
<td>-------------------</td>
<td>----------------------------------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>11.0145</td>
<td>Extension of the inclusion criteria</td>
<td>Stationary gas installations (D50, excl. D5010)</td>
</tr>
<tr>
<td>11.0245</td>
<td>New code</td>
<td>Cutting/clipping tool/implement, mechanical (H32)</td>
</tr>
<tr>
<td>11.0315</td>
<td>Extension of the inclusion criteria</td>
<td>Cutting/clipping tool/implement, manual (H43)</td>
</tr>
<tr>
<td>11.0335</td>
<td>New code</td>
<td>Breaking tool/implement, manual (H40)</td>
</tr>
<tr>
<td>11.0345</td>
<td>New code</td>
<td>Screwing tool/implement, manual (H44)</td>
</tr>
<tr>
<td>11.0350</td>
<td>New code</td>
<td>Drilling/grinding/sticking tool/implement, manual (H45)</td>
</tr>
<tr>
<td>11.0355</td>
<td>New code</td>
<td>Gripping, holding and nipping tool/implement, manual (H46)</td>
</tr>
<tr>
<td>11.0360</td>
<td>New code</td>
<td>Securing implement (H14)</td>
</tr>
<tr>
<td>11.0365</td>
<td>New code</td>
<td>Paining implement (H50)</td>
</tr>
<tr>
<td>11.0370</td>
<td>New code</td>
<td>Measuring tool (H55)</td>
</tr>
<tr>
<td>14.9801, 14.9802</td>
<td>Extension of the inclusion criteria</td>
<td>Stationary equipment for bathing, water sports and shipping (B04 excl. B0402, B0403)</td>
</tr>
<tr>
<td>14.9803</td>
<td>New code</td>
<td>Stationary equipment for bathing, water sports and shipping (B04 excl. B0402, B0403)</td>
</tr>
<tr>
<td>16.0125</td>
<td>New code</td>
<td>Water (Y01)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code in ISS-manual</th>
<th>Changes compared to ICECI-manual</th>
<th>Comparable data-element in HLA V2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.0198</td>
<td>Extension of the inclusion criteria</td>
<td>Natural element (Y09, excl. Y0950)</td>
</tr>
<tr>
<td>16.0205</td>
<td>Replaced</td>
<td>Processed surface, outdoors (B10, excl. B1020)</td>
</tr>
<tr>
<td>16.0207</td>
<td>New code</td>
<td>Structural element of stone (A13)</td>
</tr>
<tr>
<td>16.0270</td>
<td>New code</td>
<td>Insulation material (A17)</td>
</tr>
<tr>
<td>19.0103</td>
<td>New code</td>
<td>Chocolate, sweets (Q04)</td>
</tr>
<tr>
<td>19.0110</td>
<td>Dropped</td>
<td></td>
</tr>
<tr>
<td>19.0120</td>
<td>Replaced</td>
<td>Meat and poultry (Q00)</td>
</tr>
<tr>
<td>19.0121</td>
<td>New code</td>
<td>Fish and shellfish (Q01)</td>
</tr>
<tr>
<td>19.0122</td>
<td>New code</td>
<td>Milk and egg products (Q02)</td>
</tr>
<tr>
<td>19.0123</td>
<td>New code</td>
<td>Vegetables, nuts (Q03, excl. fruits and mushroom)</td>
</tr>
<tr>
<td>19.98</td>
<td>Extension of the inclusion criteria</td>
<td>Other food (Q09)</td>
</tr>
<tr>
<td>21.07n</td>
<td>New codes</td>
<td>Corrosive chemicals (R02)</td>
</tr>
<tr>
<td>41.n</td>
<td>New codes</td>
<td>Laboratory equipment (J50)</td>
</tr>
<tr>
<td>98.02n</td>
<td>Replaced</td>
<td>Stationary equipment on roads (B00)</td>
</tr>
<tr>
<td>98.06n</td>
<td>New codes</td>
<td>Stationary equipment in recreational ground, gardens (B01) + Other plants and garden accessories (Y19)</td>
</tr>
<tr>
<td>98.07n</td>
<td>New codes</td>
<td>Musical instruments (M00)</td>
</tr>
<tr>
<td>98.08n</td>
<td>New codes</td>
<td>Industrial packaging (S05)</td>
</tr>
<tr>
<td>98.09n</td>
<td>New codes</td>
<td>Other packaging, container, part of packaging (S09)</td>
</tr>
<tr>
<td>98.10n</td>
<td>New codes</td>
<td>Isotopes, rays (Z00)</td>
</tr>
</tbody>
</table>
Annex 3  Email to IPP contact persons

Joke Broekhuizen
21-02-03 15:02
To: Netwerk IPP Designated Experts, Netwerk IPP Project Leaders
cc: Jeanet Kammeren/CSI@CSI, Rieneke Dekker/CSI@CSI,
    Juanita Haagsma/CSI@CSI
Subject: Coding Manual

Dear all,

In the beginning of March we will send you the draft ISS coding manual for comments. Since we would like your comments within two weeks after sending it, we already inform you (so you can already allot some time for commenting).

This coding manual is meant for collecting information on all type of injuries at Emergency Departments and is based on the International Classification of External Causes of Injuries and the current EHLASS coding manual. The coding manual is drafted under the contract with the European Commission: it is an IPP-project.

If you are not interested in commenting this coding manual, please let us know.

With kind regards,

Saakje Mulder
Dear all,

In our e-mail of February 21, 2003, we already informed you about the draft ISS coding manual. Please send us your comments **before April 1, 2003** to Rieneke Dekker: r.dekker@consafe.nl.

This coding manual is meant for collecting information on *all* types of injuries (so not just home and leisure accidents) at Emergency Departments and is based on three classifications/coding manuals:

- International Classification of External Causes of Injuries (ICECI 1.1);
- the current EHLASS coding manual (V2000): especially looked at for the level of detail and additional data-elements; and
- Minimum Data Sets on Injuries (developed within IPP).

The coding manual is drafted under the contract with the European Commission: it is an IPP-project.

This e-mail includes four attachments:

**Annex 1:** The methodology for developing the new ISS coding manual. Please read this annex carefully, since it is the basis for the decisions we have made during the revision process.

**Annex 2:** The changes we suggest are ordered systematically per data element in tables. We have included some specific questions for you to be answered (it is up to you in what way you answer the questions: e.g. by fax, e-mail, included in the document, or listed separately).

**Annex 3:** The data elements of the new ISS coding manual, with their permissible values, and in- and exclusions (changes compared to ICECI 1.1. are underlined).

**Annex 4:** The data element 'objects'. This part is included in the manual, but in a separate annex due to its size (changes compared to ICECI 1.1. are underlined).

In addition to the specific questions in annex 2, we would like you to check whether according to you the level of detail per data element is feasible for data collection at Emergency Departments.

If you have any additional questions, please don’t hesitate to get in touch.

With kind regards,

Saakje Mulder
Enclosures:

Annex 1; Methodology.doc
Annex 2; Changes systematically ordered.doc
Annex 3; All data elements except Object.doc
Annex 4; Data element Object.doc

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Annex 4 Comments on the draft ISS coding manual from IPP contact persons

Nick Dessypris, Athens University Medical School, Greece

Country code
I am not sure whether this variable must include the country where the injury happened or the country of permanent residence of the injured person. If this variable covers the first possibility then a new variable must be introduced to indicate whether the injured person is permanent residence or not. In case of the second possibility this code must be expanded to cover more countries. For example as there are many visitors from USA, Canada, Japan and Australia we may have to include these countries as well. As this code will cover occupational injuries countries like Philippines, Pakistan should be included. One idea is to include some developed countries and then to separate the countries based on continents or regions (Asia, South- America, Africa)
In any case I think that all European countries (ex. Russia and Yugoslavia) must be included

Sex
The number 9 is more usual for the unknown than the 3

Age
Although age can be calculated from the other variables I think that we must include this variable directly. Many people especially the elderly are not able to give the exact date of their birth. If the information for the injured person comes from a friend or a not very close relative then again the date of birth can be missing

Date and Time of attendance to emergency department
It could be of interest to collect this information

Treatment
We must clarify the case "when the patient died after hospitalization". If this case is coded as 7 "Deceased" then in a sample the total number of hospitalizations "5" will be different from the total number of the patients that will have a number at the days of hospitalization.

Days of Hospitalization
I think that this variable must be included. Together with the treatment gives an estimate of the injury severity. Why not include ISS (Injury Severity Score) as well?

Intent
Road Traffic, Occupational, Military Services, Person under the influence of drugs are categories that can be included in this variable. I think that we must not include euthanasia in other specified intent.

Place
We do not agree with the example of the "guide for use". If we code the place like a park (Holiday park) then we can not focus at the real problem which is the Swimming pool and not the park itself. A preventive strategy will be for the swimming pools and not for the park. The park could be described in the text and isolated from a free text analysis.
As we develop a new coding manual we can separate Living room from Bedroom.
Residential caravan, tent, hut-cottage could be separate codes.
Indoor stairs of a block of flats but outside the apartments where should be included?
Schoolyard must be a separate code. Many childhood injuries occur at the schoolyard.
Similar to the "home" category in which indoor stairs are separated we can have a different code for the indoor stairs of schools.
Public swimming centre: Does this code include organized swimming areas at the sea?
A remark with the information that places like Pathway and/or footpath for joking are included in the code 6.4 must be introduced at the sports and athletics areas.
Quay, docks, port can be located in one separate code
Bus stop, terminal can be a separate code
Railway station, underground can be a separate code
New codes can be introduced for Grand-stand in "sports and athletics area", Unbuilt area inside cities (which can not be considered as park or square or countryside) in "recreational area, cultural area or public building"

Mechanism
about 1.1: I could not find any explanation about "mode of transport" does 4=driver? 5=passenger? Why the next category after 8 is the 20?
Why not separate the category 98 "other specified mechanism of injury" in multiply categories and leave only the value 98="other specified mechanism of injury"

Activity
Cooking can be separate form cleaning.
Maintenance (of home) is referred both in 2.3 and 2.7.
What is included in the category 2.5 "Caring for children and relatives"?
Repairs can be a separate category.
Considering the category "Education" some extra codes can be introduced for "Classroom activities" and "Non sports Activities at the time of the break, before or after the classes at the schoolyard"
Separate code for "Sports during break, before or after the classes at the schoolyard". It is different from the above proposed category. This will give us the opportunity not to lose any information even for sports or even for education. It is a common in children to have an injury during break playing football or volleyball.
Agricultural activities as well as farming activities can be two separate new codes.

Sports
Can we introduce in the team ball sports the mini soccer (5x5)? In Greece it became a very popular sport.
River rafting can be in the category 4 and not in 15.
Considering the category 8 "acrobatic sports" I think that the title of EHLASS 2000 is more suitable "Gymnastics with appliance"
I can not find the respective category of EHLASS 2000 "B2=Gymnastics with manual appliance" together with the respective codes (B20--B29). If they are not included we must introduced them in the new coding system.

Type of Injury
It is more common to have the code 97 for "No injury" instead 1.
A new code for "sock after an injury", "drowning", "inflammation-swelling" can be introduced.

Body part
Lips, Tongue, Gum, Oral cavity can be separate codes.
Eye, Eyelid can be separate codes.
Pharynx can be a separate code.
The whole (or most of the) upper limb must be a separate code.
The whole (or most of the) lower limb must be a separate code.

Objects
Is it appropriate to include names of objects like 60255 code "Barbie" and "GI-Joe"?
I did not find respective categories like A7 Particle, A8 Chip, splinter, piece of EHLASS 2000.
It very common to have injuries due to parts of objects (broken glasses broken windows, wooden or metal chip).

In many cases the codes must be more explicit. Different objects are coded under the same code but it will be better to have different codes. For example
160115: Gravel is completely different from sand
160205 asphalt surface is different from gravel surface different from wooden surface. In many injuries the type of the surface (ground) plays an important role. It is very common that the ground is inadequate and the injury is due to this fact. So it is important for any prevention to have detail description of the objects.
149801 floor of swimming pool is different from stairs of swimming pool. It is more usual to have bad maintained stairs that prevention could be taken than inadequate swimming pool floor.
190123 vegetables and nuts can have different codes (nuts are very dangerous for suffocation especially in children).

My suggestion is that almost every object that you describe must have a different code. (EHLASS 2000 have all these codes analytical). Pharmaceutical substances although they are not very common objects are described very detailed. The same can be happened with the other objects. One idea is to keep the structure of EHLASS 2000 and to make it more explicit. For example miniatures of cars, miniatures of soldiers, kites should be included as toy categories. Port-bebe carriers (Relax) and baby bouncers should be included as separate baby products.

Finally an example of the sequence of the objects when particles are involved must be given.
For example if a child has a choking injury due to a piece of a plastic toy the direct object (the object that causes the injury) is the plastic piece and the underlying object (the object that involved) is the toy.

**Additional Questions to the EHLASS experts**

About "Complication of medical or surgical care" and "Neglect, Abandonment, or lack of necessities of life". I do not think that will cause any trouble if they are included in the new coding manual.
About "body part other specified" Indeed searching our database we have only 2 cases over 251.393 with this code and these were based on EHLASS96 where there was not any code about multiple body parts.

**Remark**

One last point that I would like to comment is that although with this structure the different categories are well separated, the coding system is not friendly for any analysis. I would prefer not to have commas or any letters. I think that it would be better if there is a sequence of numbers or a number with 3digits (integers) instead 1integer with two decimals.
Birthe Frimodt-Moller, National Institute of Public Health, Denmark

General comments:
1) The time allowed for the exercise of commenting on the full contents of the ISS coding manual is too short. It should be considered a project by itself to evaluate the entire manual with the view to its future use for an all-injury registration at ED level.

2) The draft ISS coding manual does not yet cover an all-injury registration for the ISS.

3) As it stands at present, the manual does not cover transport injury events and occupational injury events (and it is questionable, whether it covers intentional injuries). Therefore, it is relevant for a future project to discuss and evaluate those modules that are not yet included.

4) The draft ISS coding manual is based on the draft ICECI, version 1.1. This version is at present considered an alpha version subject to further discussion in the competent bodies under the WHO. It is advisable to await the next steps of the procedure for developing the ICECI, before the above-mentioned ‘project’ is undertaken. It is a question of rational use of resources, if the effort to correct the draft ISS coding manual is undertaken at this time.

5) The exercise of including the HLA V2000 manual in the current draft ISS coding manual has been based on an earlier version of the V2000. It is advisable to check the contents of the final version of V2000, submitted to the European Commission as "Coding manual 2000 for Home and Leisure Accidents. ISS Database version 2002. August 2002". The changes are minor, compared to the interim version, but for correctness of the exercise, it is advisable to use the final V2000.

6) The consistent use (in the CSI documents) of the phrase: EHLASS V2000 is confusing to parties who are not familiar with the long history of the coding manuals used for registration of home and leisure accidents. The Commission has explicitly wished for termination of using the name: EHLASS. Therefore it is advisable to use (in the CSI documents) a name for the present coding manual, which is more relevant. For sake of practicality, the following is proposed: HLA V2000 manual.

Specific comments: Due to time constraints and the above-mentioned reasons, the detailed evaluation of the draft ISS coding manual has not been done. However, the specific questions raised by the CSI are commented on in the annex 1, Methodology (enclosed). By going through the various code sets – at a glance – several errors have been detected. It is very likely, that further changes to various code sets will be discussed, when the next version of ICECI is ready.

Overview: It is recommended to include an overview of the aggregate level of codes, in order to facilitate the exercise of evaluating the draft ISS coding manual (which contents including the HLA V2000 codes can be found where, etc.). In the long run, an overview is more user friendly, as it enables the user to get an impression of the contents of a given set of codes. The coding style of the ICECI is very detailed and causes confusion to the user.

Product classification: The experiences of the IPP project, “Preventive product safety analysis” (Austria) indicates that it would be a worthwhile project to analyse the data collected by the present classification of products in the HLA V2000. The aim of such an analysis would be to assess the
proportion of product codes used in the injury registration at ED level. The assessment would include the level of detail used so far, and enable an evaluation of the informative value of the codes used. The results would lead to a discussion of which level of specificity is relevant for data collection at ED level, while at the same time considering consumer safety interests. During the past years, the consumer safety interests in product information have often been at a level of specificity, which cannot be obtained for the ED registration of product related accidents. Therefore, a revision of the product classification could be based on solid evidence of, what is feasible for data collection at ED level, and what would be the compromise with product safety interests.

A project under the EU Public Health Programme aiming at developing an ISS coding manual for an all-injury ISS database would be a priority task for future activities. Such a project could i.a. include the analyses of product related accident data aiming at a revision of the product classification. The results – also of evaluating other code sets – might also benefit the future ICECI version.

Technically, the cross-over from one classification to another should be from the most detailed level of a classification. The MDS is – as the name implies – a mini data set or an aggregate level of hierarchical codes, so basically, the MDS should not be used as a guideline. However, I am not sure what exactly is meant by using the MDS in this exercise?

Date and Time of attendance must be included as variables. They are crucial for calculation of ‘age’ and no. of beddays.

Treatment & follow-up: Advisable to include in “guide for use” how the code “deceased” should be used – see the V2000 final August 2002.

An overall question is whether the level of detail of the new data elements is feasible. Without going into detail at this time about the relevance of detail contained in the ICECI codes, and therefore the feasibility of collecting such detail, then it is also an overall question, whether or not the specificity of information in the V2000 codes is lost - and if so – whether it is acceptable , cf. the example above regarding a number of products that are transformed from specific codes in V2000 to inclusions in the draft ISS coding manual. This means that identified products, such as B0340 Inflatable bouncers are no longer identified, since the product is included under “other specified” (or similarly under a general group like “powered amusement rides”).

Your question regarding “Complications of medical or surgical care”: Should this be included in the ISS coding manual? The on-going international debate has so far excluded ‘complications’ and ‘adverse effects’ etc. from the concept of acute injury events and their consequences. Conventionally, injury statistics do not include such elements. Apart from this, it is unlikely that patients suffering from such conditions are encountered at the ED level of hospitals. The point of departure for the ISS coding manual is the registration at ED level, so it is advisable to exclude these conditions (for hospitalised patients (in-patients) the coding of such cases would anyway follow ICD-10).

Your question regarding “Neglect, abandonment, or lack of necessities of life”: This particular item is included under intentional injury in ICD-10, chapter XX (under ‘assault’ codes). This is not reflected in the ICECI codes for ‘intent’. In the pure context of mechanism of injury it does
not belong in this module. The concept of *mechanism of injury* in ICECI is indeed debatable, and will not be discussed at this time.

**Your question regarding coding “body part, other specified” (annex 2):**
According to the conventional technical requirements for a classification, the ‘other specified’ code is included. All body parts seem to be covered, but if a specific case exceeds our imagination, then that particular case is covered (cf. the principle of exhaustiveness of a classification). Advisable to keep the ‘other specified’ included.
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