INJURY SURVEILLANCE GUIDELINE

January 2021



Health Protection Agency

INJURY SURVEILLANCE GUIDELINE

MOH-HPA/G/21/93-0

HPA-INJ-U00092-GG-2021

Health Protection Agency,

Ministry of Health

i

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Design and layout World Health Organization

Printed in Maldives

FOREWORD

To develop effective prevention strategies, and injury prevention measures, an injury surveillance system is an essential prerequisite. Due to the lack of good data the actual weight of the problem is not depicted.

Currently, injury data is collected adhoc and is not compiled in a manner in which it can be utilized effectively for decision making in injury related policy and programs. Efforts to strengthen injury surveillance has been initiated by the injury prevention program in consultation with the relevant stakeholders. This guideline on injury surveillance is developed to guide and assist the health care professionals to collect and report accurate and standardized information on the different injuries including intentional and unintentional injuries and deaths.

Henceforth, I urge the best use of this guideline by all health care providers, especially those working at the emergency response department to collect, use and report accurate and timely data on injuries. Consequent in this endeavor is availability of reliable and consistent data and information on injuries and implement appropriate interventions to reduce disability and death due to injuries.

Ms. Maimoona Aboobakuru Director General of Public Health

ACKNOWLEDGEMENTS

The revision of the injury surveillance guideline was an initiation from the Environment and Occupational Health and Safety Division of Health Protection Agency, Ministry of Health, Maldives.

The guideline was developed with technical assistance and guidance from Dr. Ahmed Ziyan (Consultant in Emergency Medicine/ IGMH) and Dr. Aminath Zeyba (Consultant in Emergency Medicine/ IGMH)). Health Protection Agency is grateful for the continuous support given by Dr. Ahmed Ziyan and Dr. Aminath Zeyba throughout the development of the guideline.

Health Protection Agency greatly appreciates the active participation and valuable contributions of working group members which made the development of the guideline possible

Contents

FOREWORD	i
ACKNOWLEDGEMENTS	ii
Contents	iii
ACRONYMS	iv
CHAPTER 1	1
1.1. Introduction	1
1.2. Objectives of the guideline	2
CHAPTER 2	3
2.1. What is an injury?	3
2.2. Types of injury	3
CHAPTER 3	4
3.1. What is surveillance	4
3.2. Why do Surveillance?	4
3.3. Attributes of a good surveillance system	5
CHAPTER 4	7
4.1. Injury surveillance data collection	7
4.2. Steps of Data collection	8
4.3. Injury surveillance data collection form	9
GENERAL INFORMATION	10
SECTIION 1: INTENT	10
SECTION 2: MECHANISM OF INJURY	11
	11
Continuation SECTION 2: MECHANISM OF INJURY	12
SECTION 2.1: Mode of Transport (type of vehicle involved)	13
SECTION 2.2: Person in relation to the vehicle involved	13
SECTION 2.3: High risk behavior	13
SECTION 3: LOCATION OF INCIDENCE	14
SECTION 3.1: WORK PLACE DETAIL	15
SECTION 4: INJURY SEVERITY	15
CHAPTER 6	16
6.1. Data entry and analysis	16
ANNEXES	17

Annex 1: Report collecting from Tertiary Hospital	. 17
Annex 2: Report collecting from other health facility	. 18
Annex 3: Injury surveillance form	. 19

ACRONYMS

A&E	Accident and Emergency
ER	Emergency Response
IGMH	Indira Gandhi Memorial Hospital
HPA	Health Protection Agency
OPD	Out Patient Department
O&E	Observation and emergency
ICD	International Classification of Disease
PHU	Public Health Unit
WHO	World Health Organization

CHAPTER 1

1.1. Introduction

Every day more than 14,000 lives are cut short as a result of an injury. Fatal and non-fatal injuries are of increasing public health concern globally, particularly in low and middle income countries. According to the World Health organization (WHO), injuries constitute a major public health problem causing more than 5 million deaths and contribute to more cases of disability each year.

People from all economic groups suffer fatal injuries, although death rates due to injury tend to be higher in those in the lower income groups. Injuries sustained by individuals' leads to loss of productivity and impacts society as a whole, leading to serious economic consequences.

Injuries constitute as one of the neglected health problems in Maldives. It is a major public health problem that affects all population regardless of age, sex, income or geographical region. However, the magnitude of the problem varies considerably by sex, age and income group.

Injury surveillance includes both injury mortality and morbidity data. Both mortality and morbidity data is an important indicator to understand the burden of the health problem. It identifies the number of deaths from injuries, and injuries that result in hospitalization or treatment in emergency department.

Injuries are preventable and many effective interventions can be taken by understanding the magnitude and characteristics of the problem, such information will indicate the seriousness of the injury problem and where prevention measures are most urgently needed.

The purpose of this guideline is to establish and maintain good injury surveillance system intending to provide guidance to health professionals in recording information on individual cases of injuries including collecting, entering, collating and analyzing information and producing statistical overviews of an injury problem. This guideline provides practical steps to fill injury surveillance form, collecting

1

and sharing data, analyzing and disseminating the injury report. Establishing the injury surveillance system will give information to strengthen the existing injury prevention program and will help the country and communities to plan appropriate and effective preventive measures.

1.2. Objectives of the guideline

- To strengthen the injury surveillance system
- To collect accurate and consistent information on all types of injury to understand the rate of incidences and trends.
- To understand the burden of injuries leading to disabilities and deaths
- To strengthen public health measures related to injuries

CHAPTER 2

2.1. What is an injury?

An injury is damage to human body it is a general term that refers to harm caused by accidents, falls, hits, weapon and more.

According to WHO, An injury is the physical damage that results when a human body is suddenly or briefly subjected to intolerable level of energy. (1)

Injuries are often classified as unintentional and intentional. Traffic injuries, fire related injuries, falls, drowning and poisonings are classified as unintentional. Homicides, suicides and war are classified as intentional (2).

2.2. Types of injury

Injuries may be categorized in a number of ways. It is useful to categorize injuries according to whether or not injury is deliberately inflicted. Some of the commonly used categories are:

1. Unintentional (i.e. accidental): injuries from vehicle crashes, falls, fires and burns, drowning, poisoning etc.

2. Intentional (i.e. deliberate):

- Interpersonal (eg. Assault and homicide)
- Self harm (eg. Abuse of drugs and alcohol, self mutilation, suicide)
- Legal intervention (eg. Action by police or other law enforcement personnel)
- War, civil insurrection and disturbances (eg demonstrations and riots)

3. Undetermined intent

CHAPTER 3

3.1. What is surveillance

The term, "surveillance," as used in the public health field, refers to the ongoing and systematic collection, analysis, interpretation and dissemination of health information to concerned authorities for appropriate planning, implementation and evaluation of prevention interventions.

Surveillance produces data that describes the size and characteristics of the health problem such as the mortality and morbidity rate due to injuries, the population at most risk, the risk factors leading to injuries and its trend.

The Injury surveillance data will be collected through health care providers' nationwide including IGMH, ADK and Regional and Atoll hospitals.

Health Protection Agency (HPA) is the lead agency implementing the Injury surveillance system. Injury Prevention Program of the Environment and Occupational Health Division has the overall responsibility of managing the system.

3.2. Why do Surveillance?

Without reliable information, health care providers are severely handicapped. Injury surveillance is an essential component as it lays the foundation for injury control initiatives. Monitoring the occurrence of injuries is the first step in the process of developing an injury control intervention. Information on the injury captures the magnitude of the problem at hand; it identifies the incidence and prevalence of injuries. Apart from deaths, many more are seriously and permanently disabled and more suffer from minor, short term disabilities (1)

Effective injury control is based upon understanding the morbidity and mortality rates due to injury. Without reliable information, health care planners are unable to allocate resources to achieve the greatest impact in preventing injuries, reducing the harm they do, and treating and rehabilitating injured persons.

4

3.3. Attributes of a good surveillance system

3.3.1. Simplicity

The injury surveillance system should produce all the data needed, in the simplest and straightforward way possible. Forms for keeping records and compiling data should be easy to understand and complete, and will not waste staff time by requiring repeated entry of the same information. This is especially important where resources are limited and staff has many other demands on their own time.

3.3.2. Flexibility

The injury surveillances should be easy to change, especially when ongoing evaluation shows that change is necessary or desirable. For example, when ongoing processing we identify important data missing we can add information or change the information.

3.3.3. Acceptability

The injury surveillance system should only work if people are willing to participate in it. Involving staff in the design, evaluation and improvement of data entry forms may help ensure that they find them easy to fill out and understand their purpose. It is also important to ensure that end users are getting the results they need from the system and that you are always open to comments and suggestion for improvements.

3.3.4. Reliability

Anyone using the data produced by a surveillances system should have complete confidence in the accuracy of the data. This means that the system should:

- Fully record injury events (or cases) with all related information being described and classified according to stated definition.
- Exclude non-injury events (e.g a case of back pain that result from spinal deterioration or ongoing stress should not get classified as an injury)
- Detect all injury events within the relevant population. (e.g if your system is meant to collect data on all injuries in a community, you must be sure that you're not overlooking one of the community's several hospitals or clinics) or be able to detect

a representative sample of injury events that can be shown to be reflect the distribution of events in the whole population.

3.3.5. Utility

The Injury surveillance system is practical and affordable. Each Atoll and island health facility has a public health unit. Data will be collected, entered and report will be sent by public health staff.

3.3.6. Sustainability

The Injury surveillance system will function with minimum effort and be easy to maintain and update, so that it continues to serve its purpose well after it has been established.

3.3.7. Timeliness

The Injury surveillance system should be able to generate up-to-date information whenever that information is needed.

Security and confidentiality are two further very important features of surveillance system. Records of individual cases should be kept entirely confidential. Surveillance reports should never reveal information or individuals. Moreover, the system should never expose personal information that embarrasses or threatens people, or that risks their jobs or their relationship.

3.3.8. Case inclusion

- All injuries presenting to the accident and emergency department, irrespective of severity are included. These being transport accidents, assaults, intentional and unintentional self-harm.
- Revisit to a hospital for a complication or mortality that had resulted from a previous injury.

3.3.9. Exclusion

- Injury caused during medical intervention and adverse effects of medical treatment.
- Re visit to the hospital for follow ups and reviews

CHAPTER 4

4.1. Injury surveillance data collection

Data collection is the ongoing systematic collection, analysis and interpretation of the health data necessary for designing, implementing and evaluating public health prevention programs. (3)

Data Collection:

Injury surveillance data will be collected by Health professionals responsible in collecting data including doctors, nurses, health workers and clinical assistants, interpreters posted along with the doctors or any staff allocated (Nurse, Doctor, etc).

- Data collection starts at patient's arrival in Emergency department, hospital. Injury surveillance forms should be available in the Emergency department and the general practice OPD rooms.
- Forms are to be filled by the clinical assistants/interpreters who are posted with the doctors on duty or any person allocated (Nurse, Doctor, etc). The doctor should verify the information and signs the form.
- These forms should be collected at the end of each shift and kept in the Emergency Room of health care facility where the Nurse in charge of that shift take responsibility of the forms.
- Every morning a staff of health information and medical records section/public health units collect these forms from the Emergency department and take them to the medical record section.

4.2. Steps of Data collection



4.3. Injury surveillance data collection form

The injury surveillance data collection form consists of a single page. The front page consists of the patient demographics and variables related to the injury.

The back side of the page contains instructions to complete the form.

The injury surveillance form contains data collection which is essential data of the injured or the dead. These variables are divided into the following sections:

- General Information
- Section 1: Intent
- Section 2: Mechanism of Injury
 - Section 2.1: Mode of Transport (type of vehicle involved)
 - o Section 2.2: Person in relation to the vehicle involved
 - Section 2.3: High risk behavior
- Section 3: Location of Incidence
 - Section 3.1: Workplace details
- Section 4: Injury severity

GENERAL INFORMATION

This segment requires data on patient demographics including:

- Patient ID card for local
- Passport number for foreigners
- Age, gender and Nationality

Details related to the incidence which includes:

- Date of incident: Date shall be entered in numerical order as follows: DD/MM/YYYY
- Place of occurrence of the injury (Country, city, island)
- Whether the injury incur during a demonstration or protest

SECTIION 1: INTENT

- Unintentional (accidental) Any accidental injuries without any intention to harm self or others. Example: Falls, struck by objects, etc.
- Self-harm A self-inflicted injury on the person's body with the purpose damaging one's own body, with or without suicidal thoughts
- 3. Intentional (deliberate) Intentional harm to another person or group of people

SECTION 2: MECHANISM OF INJURY

Refers to how the injury was inflicted, i.e. how the person was hurt. If more than one mechanism, record the one that precipitated the injury. E.g. Struck by falling objects, Poisoning (ingestion of multiple tablets e.g. Alzheimer patients, IV drug users)

1. Road traffic accident (also refer to SECTION 2.1, 2.2 and 2.3)

2. Assault

Sexual, physical by sharp or blunt object, bodily force or by unspecified means.

- 3. Fall may include;
 - Fall from bed
 - Fall from building; this include fall from, out of or through balcony, bridge, building, pole, roof, tower, wall, window and railing.
 - Fall from chair; including wheel chair
 - Fall from ladder
 - Fall from stairs; this also include fall from escalator, incline and ramp.
 - Fall from tree
 - Fall on the same level; this also includes fall due collision of pedestrian with another pedestrian, accidentally being dropped while being carried, fall involving roller skates and fall from bumping against object.

4. Fire, burn, scalds may Include:

- Electric Burn: This Includes burn or other injury from electric current
- Chemical Burn
- Burn from hot liquid
- Burn from contact with hot surface
- Inhalation Injuries
- Lightning Injuries
- Burn from steam and vapors

5. Poisoning

Poisoning (ingestion of multiple tablets e.g.: Alzheimer patients, IV drug users)

Continuation SECTION 2: MECHANISM OF INJURY

6. Drowning

Includes:

Drowning and submersion while in bath tubs, drowning in swimming pool, drowning and submersion in natural water including open sea, pond (kulhi). Also, drowning and submersion such as in quenching tank and reservoirs.

7. Sports Injuries:

Sports injuries refers to the injuries that occur during sports/ exercise some of the most common sports injuries include; sprains-tears to the ligaments that join the ends of bones together.

8. Occupational Injuries, may be sustained from:

- exposed electrical wiring
- flammable chemicals that could lead to fires and explosions
- falls
- machinery
- Blunt object
- Caught between object; Caught, crushed, jammed or pinched in or between objects

9. Struck by falling objects

10. **Others,** may include but not limited to:

- Strangulation
- Firearm injuries
- Bite/Sting; Includes contact with spiders, scorpion, lizards and snakes, hornets wasps and bees, centipede and venomous millipedes, venomous marine animals and plants and venomous arthropods such as ants.
 Data recording; should specify the animate force involved in the injury if known.

Section 2.1 to 2.3 is to be completed if the mechanism of injury is *road traffic accident*.

SECTION 2.1: Mode of Transport (type of vehicle involved)

- 1. Motorcycle
- 2. **Commercial vehicle** refers to company operated vehicles
- 3. Sea transport refers speed launch, vessel, fishing vessel etc
- 4. **Heavy vehicle** refers forklift, tractor etc.
- 5. Truck, pickups, vans
- 6. Non-motorized vehicle: e.g. Bicycle
- 7. **Car** (privately owned)
- 8. **Others** may include but not limited to: e.g. buggies

SECTION 2.2: Person in relation to the vehicle involved

- 1. **Pedestrian:** Refers to any person involved in a transport injury event, who was not at that time of event riding or on a motor vehicle.
- Driver: Refers to an occupant of transport vehicle, who is operating it including motor cycle.
- 3. **Passenger:** Occupants of three or four wheeler vehicles
- 4. **Pillion Rider:** Person behind the driver on a motor cycle

SECTION 2.3: High risk behavior

- 1. **Patient not wearing helmet** at the time of accident
- Injuries sustained suggest of high velocity impact: injuries that are grievous and multiple and additionally if there is a passenger death in the same accident, may suggest that they have been caused by a high velocity impact
- 3. **Patient under drug influence/intoxicated:** any signs or behavior of patient that may suggest he/she is under drug influence

SECTION 3: LOCATION OF INCIDENCE

Location or place where the person was injured.

- 1. **Workplace** (also refer to section 3.1)
- 2. Street/ Highway/link Road
- 3. Airport
- 4. **Home:** Refers to the place where a person lives exchange residential institution such as hospice, reformatory, home for the sick and home under construction but not yet occupied.
- 5. **Institution**; Refers to place where a group of people with the same characteristic reside. It may include;
 - Military and police training camps
 - State Care Facilities (Home for People with Special Needs, Kudakudhinge Hiyaa, Fiyavathi, Halfway homes, Reformatory Centers etc.)
 - Drug Rehabilitation Center
 - Prison
 - Hostel
 - School/Day care/Colleges
- 6. Sea/Recreational water; Refers to swimming pools and public beach area it

also may include:

- Swimming track
- Artificial beach
- Resorts
- Lagoons
- Open ocean
- Reef
- 7. **Others;** Refers to building and adjacent grounds used by general public or a particular group of public such as;
 - Social center
 - Mosque
 - Theater
 - Post Office
 - Museum
 - Youth Center
 - Library

Section 3.1 is to be completed if the location of the incidence is *workplace*.

SECTION 3.1: WORK PLACE DETAIL

- 1. Construction site
- 2. Automobile garage
- 3. Maldives ports Limited (MPL) area
- 4. Fiberglass boatyard
- 5. **Others:**
 - i. WAMCO-while at work
 - ii. Open sea-while fishing
 - iii. Occupational diving
 - iv. Healthcare facilities
 - v. Loading and unloading dockyards/harbor area

SECTION 4: INJURY SEVERITY

Assessment of the degree of injury

- 1. No injury No signs of any visible injury
- 2. **Minor or superficial:** (e.g. abrasions and lacerations) not involving any organs, patient may be discharged
- 3. **Moderate**: requiring some skilled treatment (e.g. fractures, sutures). May require hospitalization
- 4. **Severe**: requiring intensive medical/surgical management (e.g. internal hemorrhage, punctured organs, and severed blood vessels). Requires hospitalization
- 5. **Death**

Additional Comments: Extra comments and suggestions should be clearly written

CHAPTER 6

6.1. Data entry and analysis

- Data entry is a process of entering data and updating information. Once the raw data has been collected it should be entered on a daily basis in to a computerized database set up to generate monthly or yearly statistical reports. Up to date data should be generated at any time, whenever needed.
- The data entered must be consistent and accurate. Reliable and clean data support in taking effective decision in injury prevention interventions.
- The data shall be entered by the health information and medical record section by a trained staff designated for data entry.

ANNEXES



Annex 1: Injury surveillance report collection from Hospitals in Male' region

Annex 2: Injury surveillance report collection from Regional/Atoll hospitals



Annex 3: Injury surveillance form

	Annakis 2.25 Health Tufat Agency		HE	ALTH PROTECTION AGENCY	
			G	ENERAL INFORMATION	
	ID card number/		_	Male	Age:
(PP number if foreigner)			Gender	Nationality:
id	the injury incur during a	Yes		Place of incidence (co	untry/city/island):
	demonstration/protest?	No		Date	e of incidence: / /
ease	e tick where appropriate (This form is fil	led for	the	purpose of injury surveillance prog	ram. Medico legal report (MLR)must be fille
				Section 1: INTENT	
	Unintentional (accidental)	2		Self-harm	3 Intentional (deliberate)
		Sect	tior	1 2: MECHANISM OF INJU	ł
lore	e than one box can be ticked	_			
	Road traffic accident*1	5		Poisoning	9 Struck by falling objects
2	Assault	6		Drowning	10 Others (Specify)
3	Fall	7		Sports injuries	
ŀ	Fire, burn, scalds	8		Occupational injuries	
l If	nature of accident is ROAD TR			-	
_	7	Se	ctio	on 2.1: Mode of Transport	_
Ļ	Motorcycle	4		Heavy Vehicle	7 Car
Ľ	Commercial vehicle	5		Truck	8 Others (Specify)
s L	Sea transport	6		Non-Motorized vehicle (
_	7			rson in relation to vehicle	involved
	Pedestrian	3		Driver	
	Passenger	4	otiv	Pillion rider on 2.3: High risk behaviou	
n e	xamination the following high	_	_		
	Patient not wearing helmet	2		Injuries sustained	3 Patient under drug
				suggest of high velocity	influence/ intoxicated
-		+ +			
		Secti	on	3. LOCATION OF INCIDEN	CE
	Work Place*2	4		Home	6 Sea/ Recreational water
	Street/ Highway/ Link road	5		Institutional (specify)	7 Others (Specify)
	Airport:				
If I	location of injury is WORKPLA				
	1	Se	_	on 3.1: Workplace details	
	Construction site	3		MPL yard	5 Others (Specify)
_	Automobile garage	4		Fiberglass boatyard	
			ec	tion 4. INJURY SEVERITY	
		S			
	No injury	3		Minor	5 Moderate
	No injury Severe			Minor Death	5 Moderate

GUIDE TO COMPLETING INJURY FORM

	GUIDE TO COMPLETING INJURY FORM	
Case inclusion		
 All injuries presenting to the accident 	and emergency department, irrespective	e of severity are included. These being
transport accidents, assaults, intention	al and unintentional self-harm.	
 Revisit to a hospital for a complicatio Exclusion 	n or mortality that had resulted from a p	revious injury.
	tion and adverse effects of medical treat	tment.
Re visit to the hospital for follow ups		
Section 1: INTENT		
	tal injuries without any intention to har	m self or others. Example: Falls, struck
by objects, etc.	, , , , , , , , , , , , , , , , , , , ,	, ,
	ne person's body with the purpose dama	ging one's own body, with or without
Section 2: MECHANISM OF INJURY-Refers t		
. If more than one mechanism, record	4. Fire, burn, scalds e.g.	8. Occupational Injuries, e.g.
the one that precipitated the injury	- Electric Burn	 exposed electrical wiring
1. Road traffic accident (also refer to	- Chemical Burn	- flammable chemicals that could
SECTION 2.1, 2.2 and 2.3)	- Burn from hot liquid	lead to fires and explosions
2. Assault: Sexual, physical by sharp or	 Burn from contact with hot surface 	- falls
blunt object, bodily force or by	- Inhalation Injuries	- machinery
unspecified means.	- Lightning Injuries	- Blunt object
3. Fall e.g.	 Burn from steam and vapors 	 Caught between object; Caught,
- Fall from bed	5. Poisoning	crushed, jammed or pinched in or
 Fall from building; this include fall 	Poisoning (ingestion of multiple	between objects
from, out of or through balcony,	tablets e.g. IV drug users)	9. Struck by falling objects
bridge, building, pole, roof, tower,	6. Drowning	10. Others, may includE:
wall etc	Includes: Drowning and submersion	- Strangulation
- Fall from chair; including wheel chair	while in bath tubs, following fall in	- Firearm injuries
- Fall from ladder	bath tub, drowning in swimming pool,	- Bite/Sting; Includes contact with
- Fall from stairs; this also include fall	drowning and submersion in natural	spiders, scorpion, lizards and snakes,
from escalator, incline and ramp.	water including open sea, pond	hornets wasps and bees, centipede
- Fall from tree	(kulhi)	and venomous millipedes, venomous
- Fall on the same level.e.g., fall	7. Sports Injuries	marine animals and plants and
*If nature of accident is ROAD TRAFFIC ACC		,
Section 2.1: Mode of Transport	Section 2.2: Person in relation to vehicle	Section 2.3: High risk behaviour
Section 2.1: Mode of Transport (type of vehicle involved)	Section 2.2: Person in relation to vehicle involved	Section 2.3: High risk behaviour
Section 2.1: Mode of Transport (type of vehicle involved) 1. Motorcycle	Section 2.2: Person in relation to vehicle involved 1. Pedestrian: Refers to any person	Section 2.3: High risk behaviour 1. Patient not wearing helmet at the time
Section 2.1: Mode of Transport (type of vehicle involved) 1. Motorcycle 2. Commercial vehicle refers to company	Section 2.2: Person in relation to vehicle involved 1. Pedestrian: Refers to any person involved in a transport injury event,	Section 2.3: High risk behaviour 1. Patient not wearing helmet at the time of accident
Section 2.1: Mode of Transport (type of vehicle involved) 1. Motorcycle 2. Commercial vehicle refers to company operated vehicles	Section 2.2: Person in relation to vehicle involved 1. Pedestrian: Refers to any person involved in a transport injury event, who was not at that time of event	Section 2.3: High risk behaviour 1. Patient not wearing helmet at the time of accident 2. Injuries sustained suggest of high
Section 2.1: Mode of Transport (type of vehicle involved) 1. Motorcycle 2. Commercial vehicle refers to company operated vehicles 3. Sea transport	Section 2.2: Person in relation to vehicle involved 1. Pedestrian: Refers to any person involved in a transport injury event, who was not at that time of event riding or on a motor vehicle.	Section 2.3: High risk behaviour 1. Patient not wearing helmet at the time of accident 2. Injuries sustained suggest of high velocity impact: injuries that are
Section 2.1: Mode of Transport (type of vehicle involved) 1. Motorcycle 2. Commercial vehicle refers to company operated vehicles	Section 2.2: Person in relation to vehicle involved 1. Pedestrian: Refers to any person involved in a transport injury event, who was not at that time of event riding or on a motor vehicle. 2. Driver: Refers to an occupant of	Section 2.3: High risk behaviour 1. Patient not wearing helmet at the time of accident 2. Injuries sustained suggest of high velocity impact: injuries that are grievous and multiple and
Section 2.1: Mode of Transport (type of vehicle involved) 1. Motorcycle 2. Commercial vehicle refers to company operated vehicles 3. Sea transport 4. Heavy vehicle refers forklift, tractor	Section 2.2: Person in relation to vehicle involved 1. Pedestrian: Refers to any person involved in a transport injury event, who was not at that time of event riding or on a motor vehicle.	Section 2.3: High risk behaviour 1. Patient not wearing helmet at the time of accident 2. Injuries sustained suggest of high velocity impact: injuries that are grievous and multiple and additionally if there is a passenger
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Section 2.1: Mode of Transport (type of vehicle involved) 1. Motorcycle 2. Commercial vehicle refers to company operated vehicles 3. Sea transport 4. Heavy vehicle refers forklift, tractor etc. 5. Truck, pickups, vans	Section 2.2: Person in relation to vehicle involved 1. Pedestrian: Refers to any person involved in a transport injury event, who was not at that time of event riding or on a motor vehicle. 2. Driver: Refers to an occupant of transport vehicle, who is operating it including motor cycle.	Section 2.3: High risk behaviour 1. Patient not wearing helmet at the time of accident 2. Injuries sustained suggest of high velocity impact: injuries that are grievous and multiple and additionally if there is a passenger death in the same accident, may
Section 2.1: Mode of Transport (type of vehicle involved) 1. Motorcycle 2. Commercial vehicle refers to company operated vehicles 3. Sea transport 4. Heavy vehicle refers forklift, tractor etc. 5. Truck, pickups, vans 6. Non-motorized vehicle: e.g. Bicycle	Section 2.2: Person in relation to vehicle involved 1. Pedestrian: Refers to any person involved in a transport injury event, who was not at that time of event riding or on a motor vehicle. 2. Driver: Refers to an occupant of transport vehicle, who is operating it including motor cycle. 3. Passenger: Occupants of three or four	Section 2.3: High risk behaviour 1. Patient not wearing helmet at the time of accident 2. Injuries sustained suggest of high velocity impact: injuries that are grievous and multiple and additionally if there is a passenger death in the same accident, may suggest that they have been caused by
Section 2.1: Mode of Transport (type of vehicle involved) 1. Motorcycle 2. Commercial vehicle refers to company operated vehicles 3. Sea transport 4. Heavy vehicle refers forklift, tractor etc. 5. Truck, pickups, vans 6. Non-motorized vehicle: e.g. Bicycle 7. Car (privately owned)	Section 2.2: Person in relation to vehicle involved 1. Pedestrian: Refers to any person involved in a transport injury event, who was not at that time of event riding or on a motor vehicle. 2. Driver: Refers to an occupant of transport vehicle, who is operating it including motor cycle. 3. Passenger: Occupants of three or four wheeler vehicles	Section 2.3: High risk behaviour 1. Patient not wearing helmet at the time of accident 2. Injuries sustained suggest of high velocity impact: injuries that are grievous and multiple and additionally if there is a passenger death in the same accident, may suggest that they have been caused by a high velocity impact
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2. Minor or superficial: (e.g. abrasions and lacerations) not involving any organs, patient may be discharged

3. Moderate: requiring some skilled treatment (e.g. fractures, sutures). May require hospitalization

4. Severe: requiring intensive medical/surgical management (e.g. internal hemorrhage, punctured organs, severed blood vessels). Requires hospitalization

5. Death

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