

# Botswana Causes of Mortality 2021

## Annual Report

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**Annual Report**

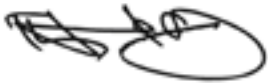
## PREFACE

This publication provides information on causes of death in Botswana that occurred in 2021. The report presents summary statistics on selected demographic, geographical characteristics and clinical diagnosis. This will help public health officials, health care providers, policy makers and the public in monitoring disease patterns at national and sub national level. Mortality data is also required for planning and operating public health programs and for establishing priorities in biomedical research.

Statistics Botswana's Health Statistics Unit (HSU) is attached to provide statistical support to the Ministry of Health as an enabler of better national/public health programmes through the collection and dissemination of quality official statistics for evidence-based decision-making, programme monitoring and evaluation.

For more information, contact the Directorate of Stakeholder Relations at **367 1300**. All Statistics Botswana outputs/publications are available on the website at [www.statsbots.org.bw](http://www.statsbots.org.bw) and at the Statistics Botswana Information Resource Centre (Head-Office, Gaborone).

We sincerely thank all stakeholders involved in the formulation of this report, for their continued support, as we strive to better serve users of our statistical products and services.



**Dr. Lucky Mokgatlhe**  
**Ag Statistician General**  
**November 2024**



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## LIST OF ABBREVIATIONS

<b>AIDS</b>	Acquired Immunodeficiency Syndrome
<b>ANACoD</b>	Analysing mortality levels and causes-of-death
<b>CNR</b>	Civil and National Registration
<b>CoDEdit</b>	Coding Edit
<b>CRD</b>	Death notification forms
<b>DHMT</b>	District Health Management Team
<b>DORIS</b>	Digital Open Rule Integrated cause of Death
<b>GBD</b>	Global Burden of Diseases
<b>HIV</b>	Human Immuno Deficiency Virus
<b>ICD</b>	International Classification of Diseases
<b>IPMS</b>	Intergrated Patient Management System
<b>MMR</b>	Maternal Mortality Ratio
<b>RTA</b>	Road Traffic Accidents
<b>SDG</b>	Sustainable Development Goals
<b>WHO</b>	World Health Organisation

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## EXECUTIVE SUMMARY

### Demographic Characteristics

- A total of 17,589 deaths were registered in Botswana for the year 2021. The highest proportion of deaths occurred in Gaborone Health District (21.3%) followed by Kweneng East District (10.4%) and Francistown District (9.9%).
- Among registered deaths there were more male deaths (50.9%) compared to female deaths (49.1%) with a sex ratio of 104 male deaths per 100 female deaths.
- The Health district with leading male deaths was Kgalagadi North (133 male deaths per 100 female death) and the district with few male deaths was Jwaneng (77 male deaths per 100 female death).
- The proportion of deaths were high among under-fives, a reduction in younger ages (5-19years) and an increase as age increases. The highest proportion of deaths was amongst those aged 85+ years (14.1%).
- Registered deaths were low in the early months of the year (January – May) and late months of the year (September to December). From June to August a spike in the number of deaths was observed with a peak in July.
- More than half (51.8%) of registered deaths happened in hospitals, 35.3 percent in other places and 6.9 percent in clinics or health posts and 4.7 percent at home (Table 3).

### Leading Causes of Death

#### ALL Registered Deaths

- Based upon the International Classification of Diseases (ICD) chapters Certain Infectious and Parasitic Diseases (30.2%) were the most common underlying cause of death followed by the Diseases of the Circulatory System (8.4%) then Neoplasms (7.4 %).
- Among all the top twenty leading cause of death, COVID-19 (22.7%) was the leading cause of death, followed by Human Immunodeficiency Virus [HIV/AIDS] (4.3%) and Diabetes Mellitus (2.8%).
- Generally it is evident that COVID-19 was particularly the most common cause of death among the age ranges 25 – 65+ years.

#### Sex Differentials

- Among females' deaths, COVID 19(22.9%) was the highest followed by Human Immunodeficiency Virus (4.3%) and the third was Diabetes Mellitus (2.8%)
- Similarly, among males' deaths, COVID 19(22.4%) and HIV (4.4%) were ranked first and second and the third was Road Traffic Accidents (2.9%).

#### Age Differentials

- The main leading underlying causes of death among the neonates were birth asphyxia and birth trauma (28.9%), other perinatal conditions (24.8%) and Low birth weight (24.5%)
- The leading underlying causes of death among the Under 1 age group category was Birth asphyxia and birth trauma (21.6%), followed by Low birth weight (19.0%) and the third was Diarrhoeal diseases (3.2%).
- Among the 1-4 years deaths were mainly due to the Diarrhoeal diseases (11.3%), followed by Endocrine disorders (5.2%) and the third cause of deaths was the Road traffic accident (4.7%).



- Among the broad age group 5-14 years Road traffic accidents (9.6%) was leading, followed by Drownings (7.1%) and the third was COVID-19(4.1%).
- The major cause of death among the age group 15-24 years was Self-inflicted injuries (13.0%), followed by Road traffic accidents (8.7%) and the third was Violence (4.4%).
- Among the 25 -34 years the major cause was COVID-19(19.9 %), followed by Road traffic accidents (9.8%) and the third was self inflicted injuries (8.7%).
- Among the 45-54 years broad age group category COVID-19 was the leading cause of death reporting (37.2%), followed by HIV/AIDS (7.7%) and the third cause was Diabetes Mellitus (2.4%).
- Among the 55 -64 years broad age group the leading cause of death was COVID-19 at (31.7%), followed by HIV/AIDS (4.5%), and Diabetes Mellitus (4.0%)
- Among the 65+ years broad age group, the leading underlying cause of death was COVID-19(19.0%), followed by Diabetes Mellitus (3.7%) and the third was Cerebrovascular diseases (3.4%).

## Global Burden of Diseases

- Based on Global Burden of Diseases Communicable diseases, Nutritional, Maternal and Perinatal (49.9%) were the highest, followed by Non-communicable diseases (40.7%) and the least were External causes of injuries (9.4%). However, it is noted that if there was no Covid – 19 in 2021 majority of deaths would have been from Non-Communicable diseases (59.1%), followed by communicable diseases, nutritional and perinatal diseases (27.4%) and Injuries (13.6%).
- The proportion of deaths due to Group I causes (communicable diseases, maternal, perinatal and nutritional conditions) was high among children aged 0 to 4 years.
- Deaths due to Group II (Non- communicable diseases) were low among younger ages (0-24 years) thereafter it increased with age with a peak in 85+ years.
- Among group III (External causes of injuries) deaths were low at the ages 5-14 years and high between the ages 20-29 years with a peak observed at the ages 25 – 29 and thereafter declining with age.
- Within the males the leading cause of death was communicable diseases (49.0%), non communicable diseases (38.0%)and injuries(13.0%) .
- Among the females most of the deaths were attributable to Communicable diseases(51.1%), followed by Non-Communicable diseases(43.0%), then injuries(6.0%).
- Comparing Males and Females there is no significant variation in the patterns of deaths due to Communicable and Non communicables diseases with respect to Age. However among the injuries more deaths were observed among males between 15-39 Years with a peak in 25-29 years.

## Natural vs Non-Natural

- About one in ten (9.4%) of deaths reported in 2021 were Non-Natural cause of deaths.
- The age group 25-29 years was the most affected by non-natural causes with half of the deaths (50%) due to Non-natural causes.
- The most common causes of deaths due to Non-Natural deaths were from Road Traffic Accidents (33.1%), followed by self-inflicted injuries (28.2%) and other unintentional injuries (19.5%).

## **1. INTRODUCTION**

Statistics on causes of death are widely used in health policy development and monitoring of progress. The World Health Assembly regularly endorses resolutions relating to reducing mortality from specific diseases, relying on cause of death statistics to determine health priorities and measure progress (WHO,2012). Cause of death information is used for analysis of global mortality levels and patterns, burden of disease analysis, and for the formulation of disease prevention and mitigation strategies (WHO,2013). Botswana routinely collects mortality data from a variety of sources, including civil registration systems, health care facilities and from other data sources such as censuses or household surveys. This statistical brief mainly analyses administrative data from civil registration systems augmented by data from Health Facilities.

The Ministry of Health (hospitals and maternity clinics) personnel completes the births and death notification forms CRD-2 upon the occurrence of a death. The completed forms are then taken to the Civil Registration offices for production of the birth and death certificates. Similarly Health Facilities also collect deaths on inpatient clients manually (MH017 - Morbidity, Mortality and Obstetric) or electronically using the Integrated Patients Management System (IPMS) which are sent to the Ministry of Health Headquarters. Mortality reporting tools allows the reporting of the medical conditions that the medical certifier attributes to causing or contributing to death. The statistics office receives data from the two sources process the data and produces annual cause of death report. A death record is designed to allow the certifying physician to record multiple causes of death for a deceased and to arrange them so that the causal relationship of the medical conditions that finally lead to death are recorded. To effectively evaluate the reported mortality information, the conditions listed by the medical certifier are coded using the International Classification of Diseases (ICD-10). The ICD-10 defines the underlying cause of death as: the disease or injury that initiated the sequence of events leading directly to death, or the circumstances of the accident or violence that produced the fatal injury.

Botswana had made a tremendous improvement in the registration of deaths over the years with a rate of death registration rising from 66.9 percent in 2012, to 80.1 percent in 2019(Statistics Botswana, 2020). However reports on cause of death has been limited to inpatient health facility data thereby not giving a holisticall overview of the burden of disease in Botswana. Deaths from health facilities only account to close to half(51.3%) of all registered deaths (Statistics Botswana, 2020). The publication present statistics on deaths by selected socio-demographic and geographic characteristics for deaths registered by Civil and National Registration. Furthermore, the stats brief present other mortality indicators outlined in previous surveys and mortality statistics from civil registration. The brief also monitors the progress of the government towards the attainment of mortality indicators in SDG 3(Ensure that healthy lives and promote well-being for all at all ages. This commitment is underscored by Government's subscription to the Sustainable Development Goals (Statistics Botswana, 2018). It will also highlight the change in methodology used in this report compared to the previous report which acts as a continuous improvement on reporting the quality of cause of death reports.

## **2. DATA SOURCES AND METHODS**

### **2.1. Data Source**

This statistical release mainly presents information based on administrative data from death notification forms obtained from the Ministry of Labour and Home Affairs - Department of Civil and National Registration (CNR). Data from Health facilities are a secondary source used to augment data from CNR. The Ministry of Health (hospitals and maternity clinics) personnel completes the death notification forms (CRD-2 ) upon the occurrence of a death. The completed forms are then taken to the Civil Registration offices for production of the birth and death certificates. Health facilities also collect cause of death data on inpatients manually using MH017 or using the IPMS. The two data sources are currently not interfaced with plans on the way to interface them. The statistics office receives electronic data files from the two sources and merge them using the national Identity card or Passport number. Merging data is done so that the coded data from Health facilities could be tapped in to avoid duplication of efforts

### **2.2. Determining the underlying Causes of Death**

Data from the health facilities is precoded by Diagnostic Coders at District and National level while the CNR data is not coded.The uncoded data from CNR is coded by Diagnostic Coders at National level. To effectively evaluate the reported mortality information, the conditions listed by the medical certifier are coded using the International Classification of Diseases (ICD-10). The ICD-10 defines the underlying cause of death as: the disease or injury that initiated the sequence of events leading directly to death, or the circumstances of the accident or violence that produced the fatal injury. Coding the causes-of-death is done at four-character level.

Digital Open Rule Integrated cause of Death - DORIS software was used in identifying the cause of death. DORIS is a software developed by World Health Organisation(WHO) to facilitate the identification of the underlying cause of death. This tool examines the information provided on the death certificates and assists in automatically selecting the underlying cause of death following the mortality rules of the International Classification of Diseases (ICD) that have been fully digitalized. In occasions where DORIS failed to derive the underlying cause of death, Diagnostic Coders derived the underlying cause of death manually following mortality coding rules according to the ICD 10 guidelines.

### 2.3. Data editing

Upon completion of identifying the underlying cause of death Diagnostic Coders and Analysts further reviewed the identified underlying cause of death to check for data inconsistencies and errors. Two systems were used to check for errors and inconsistencies namely; Analysing mortality levels and causes-of-death 3 (ANACoD3) and CoDEdit version 2.0.

The ANACoD3 is an online tool developed by WHO to help the users to perform a comprehensive and systematic analysis of mortality and cause-of-death data. The tool automatically tabulates data and presents basic mortality measures in tables and figures. It highlights potential inconsistencies and errors in the data and estimates the completeness of reporting. ANACoD3 generates indicators that reveal potential data-quality issues, as well as an array of comparable indicators including sex- and age-specific mortality rates, crude death rates, life expectancy at birth, causes of death distributed by global burden of disease categories, the top 20 causes of death, and the percentage of ill-defined causes of death (WHO, Analysing Mortality and Causes of death 3 (ANACoD3).

The CoDEdit electronic tool is intended to help producers of cause-of-death statistics in strengthening their capacity to perform routine checks on their data. As countries invest significant resources into collecting mortality data, some systematic data checks are necessary. The CoDEdit 2.0 tool is applied at data compilation stage, its primary purpose is to warn and flag basic gross errors, alert about possible misuse of codes and finally provide a summary of the data set. Errors identified by the two tools, were verified and necessary corrections were made (WHO, Implementing Basic Checks on causes of Death Data, Code-Edit tool).

Upon completion of Editing the data a review of the quality of data was undertaken using ANACoD 3 WHO for completeness and Usability index. Completeness is calculated by dividing the number of deaths recorded in the user's data file by the UN-estimated number of deaths for the same year, multiplied by 100 to obtain the percentage completeness. The WHO usability index assesses the overall quality of cause-of-death data. It is calculated as the proportion completeness, multiplied by the proportion of deaths that are assigned a well-defined cause of death code, multiplied by 100.

**Usability index (%)** = Proportion completeness \* (1 - proportion ill-defined causes) \*100

**Table 1**, below shows the summary of quality of data for Cause of death data in 2021 according to ANACoD 3. The 2021 Botswana cause of death data completeness stood at 100 percent and the Usability index stood at 65.9 percent.

**Table 1: Usability Index for Botswana 2021**

Causes of death	n	%
Underlying Causes	11,608	66
Ill Defined Causes	4,625	26
Vague Causes of Death	1,356	8
<b>Total</b>	<b>17,589</b>	<b>100</b>

## 2.4. Data Analysis

Data analysis was done in three phases being analysis of selected socio-demographic characteristics, analysis of underlying cause of death and assessing progress towards the attainment of SDG 3 mortality indicators. ANACoD3 and STATA version 6.0 were used for the analysis. Results from ANACoD3 were matched with that of STATA for consistency purposes to check to compute major causes of diseases, grouping of diseases according to the Global of Diseases etc.

## 2.5. Difference in Methods

This report comes at a time when there is change in methodology. The change in methodology is done so that there is an increased coverage and quality on determining and reporting the cause of death reports. Therefore, readers should take into considerations this changes and be cautious when comparing this report with previous reports. **Table 2**, summarises the similarities and differences in methodology for the 2021 report and the previous reports.

**Table 2 : Similarities and Differences in Methodology (previous reports & 2021 Report)**

Criteria	Previous Reports	2021 report
<b>Data Source</b>	Only Inpatient Health Facility mortality data used.	Civil and National Registration data used augmented with Health Facility reports.
<b>Determining underlying cause of death</b>	Manual	Digital Open Rule Integrated cause of Death (DORIS) software was used Manual
<b>Data Coding</b>	International Classification of Diseases (ICD) 10 used for coding Coding done at three-character level	International Classification of Diseases (ICD) 10 used for coding Coding done at three-character level
<b>Editing Underlying cause of death</b>	Manual	(ANACoD3) and CoDEdit version 2.0 used
<b>Data analysis</b>	Analysis done at three-character level	Analysis done at two-character level ANACoD3

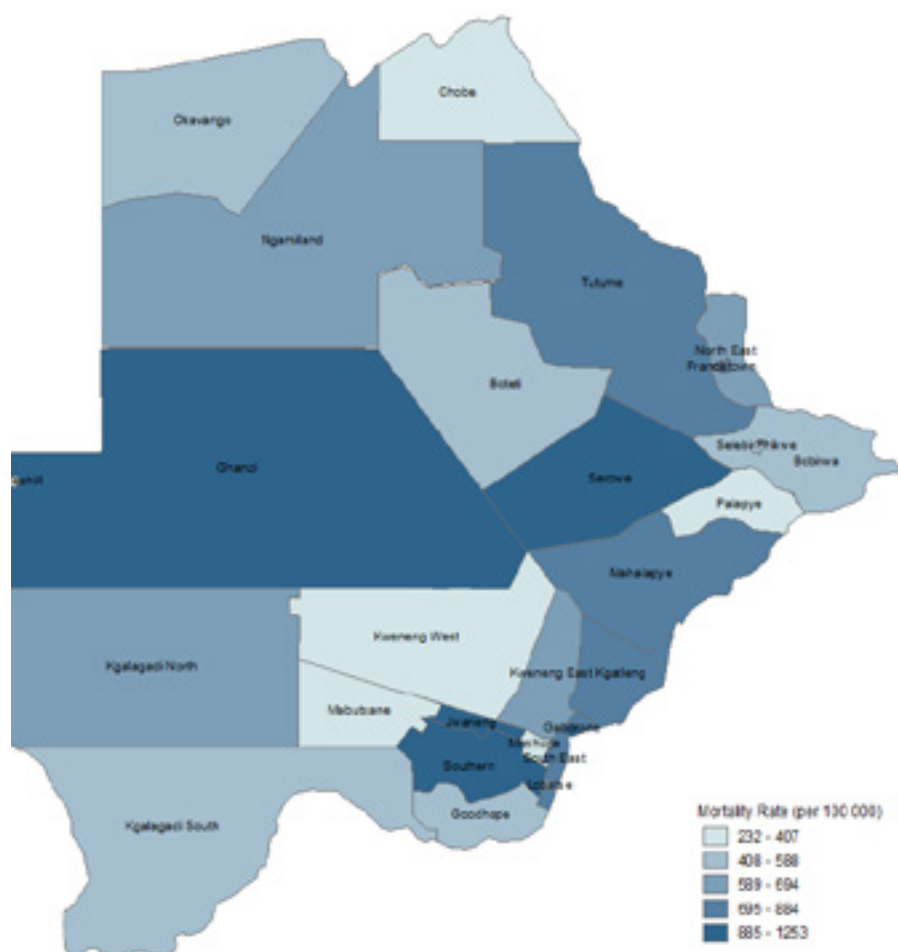
## 3. RESULTS

### 3.1. Demographic Profile

#### 3.1.1. Mortality Rate Reported by Health District

Mortality rate reported by Health District is defined as the number of deaths reported in a year per 100,000 population in a Health district. **Figure 1**, shows Mortality rate by Health district in 2021. A total of 17,589 deaths were registered in Botswana for the year 2021. Five Health Districts (Ghanzi, Charleshill, Serowe, Jwaneng, Southern) had the highest mortality rates. Four districts Kweneng West, Mabutsane, Palapye and Moshupa had the lowest Mortality rates. **Annex 1** further shows the percentage distribution of deaths by other Health Districts.

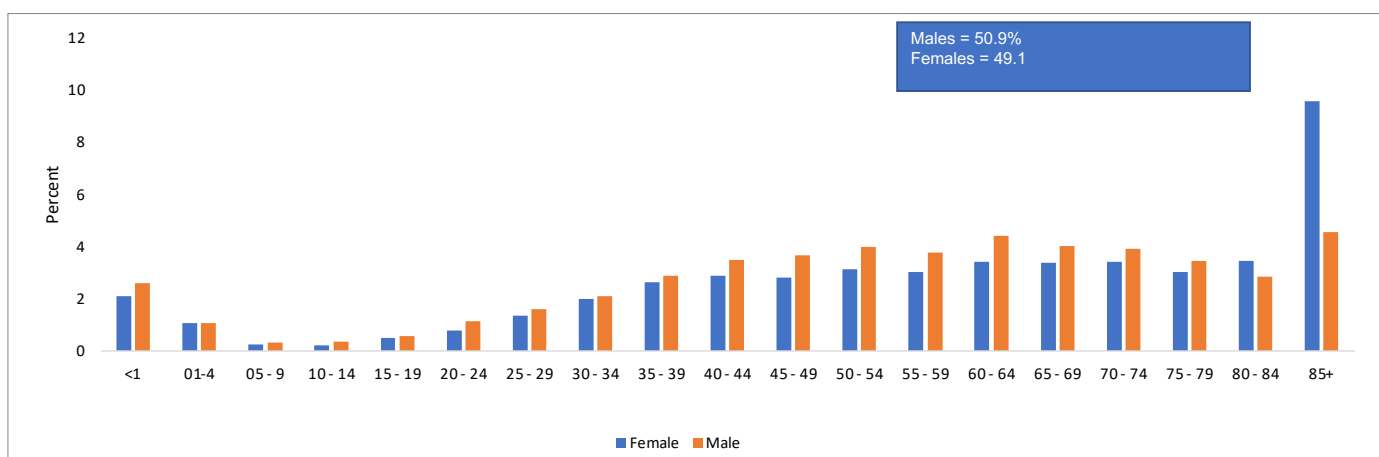
**Figure 1: Mortality Rate per 100,000 Population by Health District, 2021**



### 3.1.2. Age and Sex Distribution

The percentage distribution of deaths by age and sex for the year 2021 for Botswana is shown in **Figure 2**. There is a slight difference in proportion of male death (50.9%) compared to female deaths (49.1%). The highest proportion of deaths was amongst those aged 85+ years (14.1%). The overall pattern shows that the percentage of deaths were high among under-fives then a reduction in younger ages and an increase as age increases. Generally, from ages 0-79 years there were more male deaths than females' deaths while from 80+ years the inverse is true. Age group 1-4 years shows that there is generally no difference in the proportion of males and females' deaths. In the 85+ years proportion of female deaths was double that of male deaths.

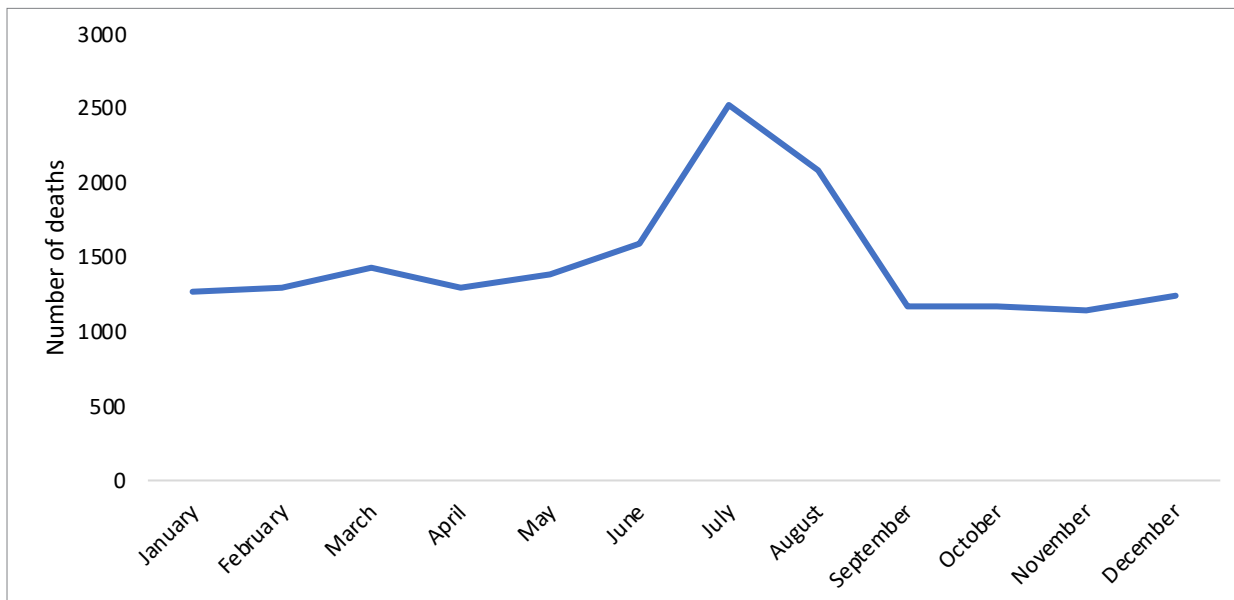
**Figure 2: Percent Distribution of Deaths by Age and Sex, 2021**



### 3.1.3. Seasonal Variations

The number of registered deaths by Month is shown in **figure 3** below. The figure shows that the number of registered deaths were low in the early months of the year (January – May) and late months of the year (September to December). During these months the temperatures are generally high with rainfall in some months. From June to August a spike in the number of deaths was observed with a peak in July. This is the winter season in Botswana. Winter seasons are invariably sunny and cool to warm with no cloud cover, evening and night temperatures can rapidly fall reaching below zero in some areas.

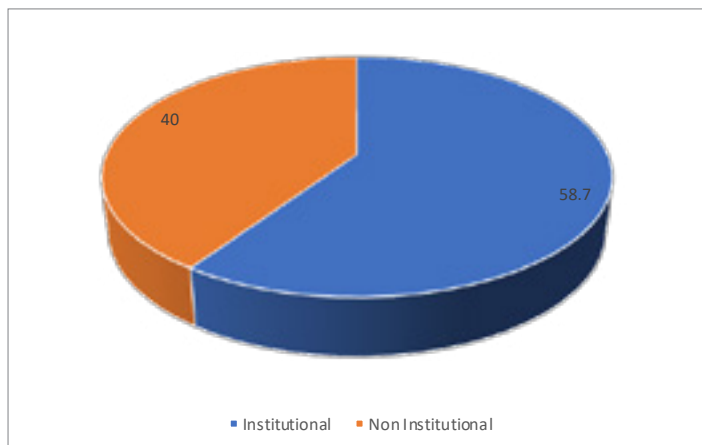
**Figure 3: Number of Registered Deaths by Month.**



### 3.1.4. Mortality by Facility Type

**Table 3**, shows the distribution of deaths by place of death occurrence in 2021. The table shows that more than half (51.8%) of deaths happened in hospitals, 35.3 percent in other places and 6.9 percent in clinics or health posts and 4.7 percent at home. Deaths from hospitals/clinics/health posts account for 58.7 percent of deaths which is an indication of deaths that occurred in a Health facility. Non institutional deaths (deaths that occur at home, other places & unstated) account for 41.3 percent (**Figure 4**).

**Figure 4: Deaths by Place of Death Occurrence, 2021**



**Table 3: Deaths by Place of Death Occurrence, 2021**

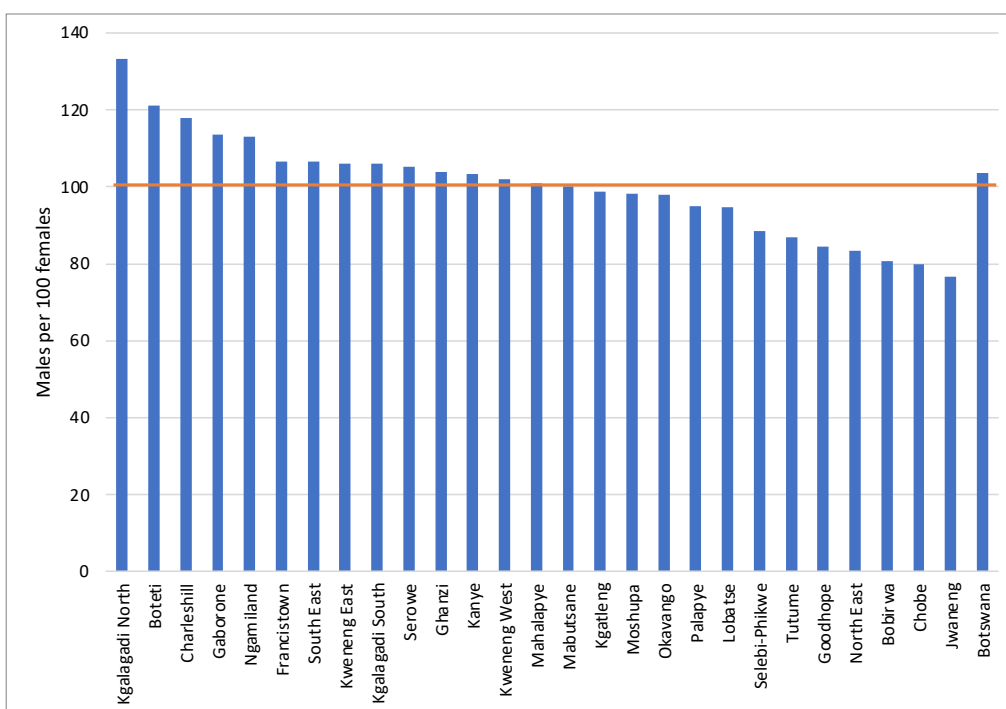
Place of Death	Number	Percentage
Clinic	1,220	6.9
Home	822	4.7
Hospital	9,105	51.8
Other	6,205	35.3
Not stated	237	1.3
<b>Total</b>	<b>17,589</b>	<b>100.0</b>



### 3.1.5. Sex Ratio by District

Figure 5 shows the sex ratio of deaths in Botswana by District Health Management Teams (DHMT) in 2021. A ratio above 100 indicates more males than females, a ratio of 100 indicates equal number of males and females deaths and a ratio of less than 100 indicates more female deaths than male deaths. The figure shows that there was a slightly higher male deaths than female deaths in Botswana in 2021 (104 male deaths per 100 female deaths). The figure further shows that majority of Health districts (14) had more male deaths than female deaths with Kgalagadi North leading (133 male deaths per 100 female death) followed by Boteti (121 male deaths per 100 female death) and Charleshill (118 male deaths per 100 female death). There were 13 DHMT's with higher female deaths than male deaths with the highest being Jwaneng DHMT (77 male deaths per 100 female death) followed by Chobe (80 male deaths per 100 female death) and Bobirwa (81 male deaths per 100 female death). Mabutsane had the same number of males and females.

Figure 5 : Sex Ratios by Health District, 2021



### 3.2. Underlying Causes of Death

This section presents information on the underlying causes of death for deaths that occurred in Botswana for the year 2021. The section covers the following; distribution of death by main groups, leading underlying causes of death, age specific cause of death, and major groups of death as per global burden of diseases. This publication uses the 10th revision of the International Classification of Diseases (ICD -10) focusing mainly on the underlying causes of death. This is defined as the disease or injury that initiated the train of events leading directly to death; or the circumstances of the accident or violence, which produced the fatal injury (WHO,1992). Classification of underlying causes of death in this publication is based on main groups, broad groups and Global Burden of Disease.

### 3.2.1. Distribution of Death by Main Groups (Chapters)

The International Classification of Diseases ICD-10 classifies diseases and related health problems into 22 main chapters, of which 19 are used in the reporting of information on underlying causes of death. The distribution of the underlying causes of death according to the main chapters is shown below in **Table 4**. The table reflects that Certain Infectious and Parasitic Diseases were the most common underlying cause of death, comprising 30.2 percent of deaths. This was followed by the Diseases of the Circulatory System (8.4%) then Neoplasms at 7.4 percent. There were no deaths recorded from the Diseases of the ear and Mastoid Process (H60 –H95).

**Table 4 : Death by Main Category of Diagnosis in Botswana, 2021**

Chapters	ICD 10 Code	Diseases/Conditions	Number	Percent
1	A00 - B99	Certain infectious and parasitic Diseases	5,307	30.2
2	I00 - I99	Diseases of the circulatory system	1,479	8.4
3	C00 - D48	Neoplasms	1,297	7.4
4	V01 - Y98	External causes of morbidity and Mortality	1,206	6.9
5	E00 - E90	Endocrine, nutritional and metabolic diseases	808	4.6
6	J00 - J99	Diseases of the respiratory system	747	4.2
7	P00 - P96	Certain conditions originating in the perinatal period	498	2.8
8	N00 - N99	Diseases of the genitourinary System	439	2.5
9	K00 - K93	Diseases of the digestive system	401	2.3
10	D50 - D89	Diseases of the blood and blood- forming organs and certain disorders involving the immune mechanism	240	1.4
11	G00 - G99	Diseases of the nervous system	209	1.2
12	Q00 - Q99	Congenital malformations, deformations and chromosomal abnormalities	91	0.5
13	L00 - L99	Diseases of the skin and subcutaneous tissue	88	0.5
14	F00 - F99	Mental and behavioural disorders	52	0.3
15	M00 - M99	Diseases of the musculoskeletal System and connective tissue	49	0.3
16	O00 - O99	Pregnancy, childbirth and puerperium	42	0.2
17	R00 - R99	Symptoms, Signs and abnormal clinical and laboratory findings, not elsewhere classified	7	0
18	H00 - H59	Diseases of the eye and adnexa	4	0
		<b>Causes Specified above</b>	<b>12, 964</b>	<b>73.7</b>
		<b>Ill-defined causes</b>	<b>4, 625</b>	<b>26.3</b>
		<b>All Disease and Conditions</b>	<b>17, 589</b>	<b>100</b>

### 3.2.2. Top 20 Leading Causes of Death

**Table 5**, depicts the top twenty (20) underlying causes of death in 2021. From the 17, 589 deaths 11, 608 were the underlying causes of deaths. The top twenty conditions contributed up to 77.8 percent of all underlying causes of death. The highest reported leading cause of death was COVID-19 (34.3%), followed by Human Immunodeficiency Virus [HIV/AIDS] (6.5%) and Diabetes Mellitus (4.2%). Other underlying causes of death are shown in **annexure 2**.

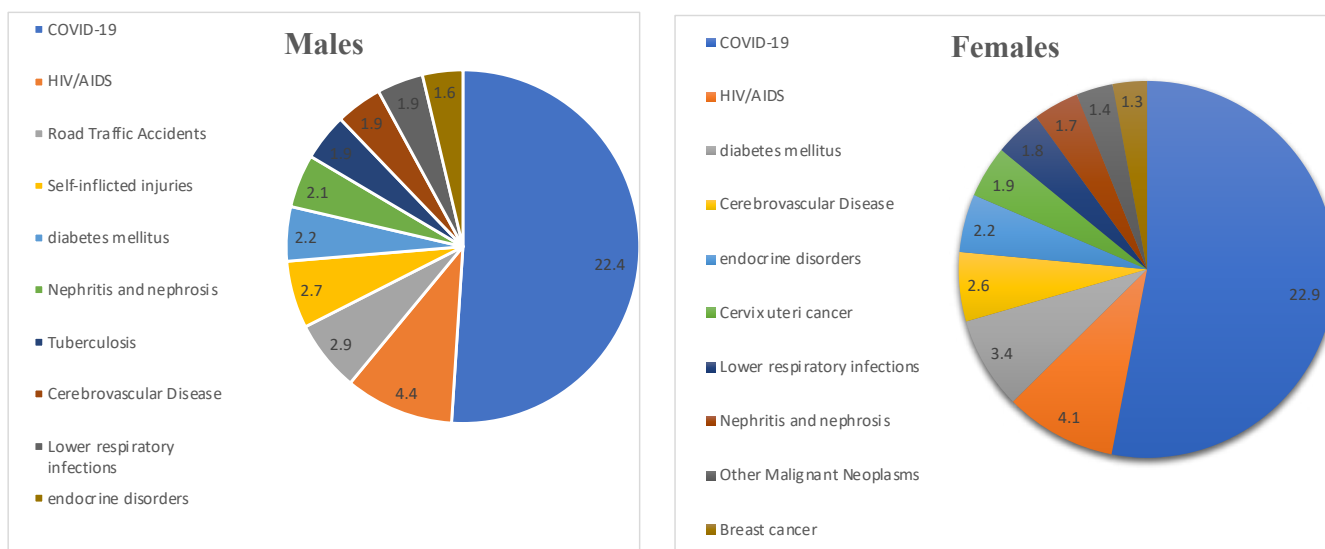
**Table 5: TopTwenty Leading Underlying Cause of Death**

Rank	Causes of Death	Number	Percent (%)
1	COVID-19	3,984	34.3
2	HIV/AIDS	749	6.5
3	Diabetes mellitus	492	4.2
4	Cerebrovascular Disease	389	3.4
5	Road Traffic Accidents	360	3.1
6	Nephritis and nephrosis	339	2.9
7	Endocrine disorders	331	2.9
8	Lower respiratory infections	318	2.7
9	Self-inflicted injuries	307	2.6
10	Birth Asphyxia and birth trauma	274	2.4
11	Tuberculosis	249	2.1
12	Iron-Deficiency Anaemia	177	1.5
13	Diarrhoeal Diseases	173	1.5
14	Cervix uteri cancer	167	1.4
15	Hypertensive Heart Disease	143	1.2
16	Trachea, bronchus, lung cancers	123	1.1
17	Oesophagus Cancer	118	1.0
18	Violence	116	1.0
19	Breast cancer	116	1.0
20	Prostate Cancer	103	0.9
	<b>Causes Specified Above</b>	<b>9,028</b>	<b>77.8</b>
	<b>Other Causes</b>	<b>2,580</b>	<b>22.2</b>
	<b>All Diseases and Conditions</b>	<b>11,608</b>	<b>100.0</b>

### 3.2.3. Leading Causes of Death by Sex, Botswana 2021

The distribution of the top ten (10) leading underlying causes of death by sex is shown below in **Figure 6**. The top ten leading causes of death among the males contributed 44.0 percent to all male deaths. Similarly, the top ten leading causes among the females contributed 43.3 percent to all female deaths. COVID -19 was the leading cause of death for both sexes, amongst males (22.4%) and females (22.9%). Human Immunodeficiency Virus [HIV/AIDS] was ranked second for both genders, amongst females (4.1%) and among the males (4.4%). Road Traffic Accidents (2.9%) was the third leading cause of death among the males, whereas among the females the third leading cause was Diabetes Mellitus (3.7%). Other major causes are shown in **Figure 6**.

**Figure 6 :Percentage Distribution of the Top 10 Leading Causes of Death by Sex, Botswana, 2021**



### 3.2.4. Neonatal Mortality

A total of 605 neonatal deaths were reported in 2021. **Table 6** shows the leading underlying causes of death among neonates. The main leading underlying causes of death among the neonates were birth asphyxia and birth trauma (44.1%), other perinatal conditions (24.8%) and Low birth weight (9.3%). These 3 leading causes constituted 78.2 percent of all recorded Neonatal deaths for the year 2021. Other causes of neonatal deaths constituted 21.8 percent of all the neonatal deaths.

**Table 6 : Major Cause of Death among Neonatal Mortality, Botswana, 2021**

Cause of Death	ICD 10 Codes	Rank	Total	Percent
Birth Asphyxia and birth trauma	P03,P10-P15,P20-P22,P24-P29	1	267	44.1
Other perinatal conditions	P00-P02, PO4, P08, P35-P96	2	150	24.8
Low Birth Weight	P05,P07	3	56	9.3
Other congenital anomalies	Q01-Q04, Q06-Q18, Q30-Q34, Q38, Q39.2-Q39.9, Q40-Q41, Q43-Q56, Q61-Q78, Q79.0, Q79.1, Q79.6, Q79.8, Q79.9, Q80-Q89, Q91-Q99	4	33	5.5
Lower respiratory infections	J09-J22,P23,U04	5	9	1.5
Congenital Heart Anomalies	Q20-Q28	6	8	1.3
Abdominal Wall Effect	Q79.2-Q79.5	7	3	0.5
COVID-19	U07.1	7	3	0.5
Other unintentional injuries	W20-W64,W75-W99,X10-X39,X50-X59,Y80-Y86,Y88-Y89	8	2	0.3
Other musculoskeletal disorders	M00-M02, M08, M11-M13, M20-M43, M50-M53, M54.2, M55-M99	8	2	0.3
Down Syndrome	Q90	8	2	0.3
Anencephaly	Q00	8	2	0.3
<b>Causes Specified above</b>			<b>537</b>	<b>88.8</b>
<b>Other causes</b>			<b>68</b>	<b>11.2</b>
<b>All Causes</b>			<b>605</b>	<b>100.0</b>

### 3.2.5. Infant and Under Five Mortality

**Table 7**, reflects major cause of death among infant and under five for the year 2021. The leading underlying causes of death among the **Under 1 age group** was Birth asphyxia and birth trauma (21.6%), followed by Low birth weight (19.0%) and the third was Diarrhoeal diseases (3.2%). The top ten underlying causes of death among this age group constituted 51.6 percent. Among the **age group 1-4**, majority of deaths were mainly due to the Diarrhoeal diseases (11.3%), followed by Endocrine disorders (5.2%) and the third was the Road traffic accident (4.7%). The age group **1-4** have among 4 of the top 10 leading underlying causes of death, attributed to accidents/Injuries.

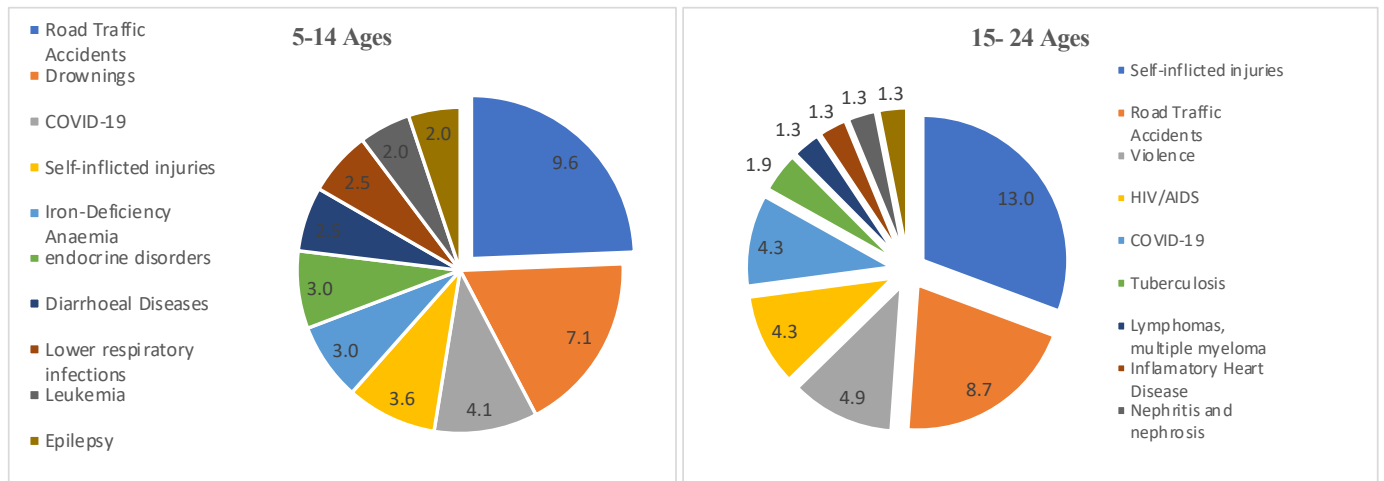
**Table 7: Major Causes of Death among Infants and Under Five, Botswana, 2021**

Causes of Death	ICD 10	1<			1-4		
		Rank	Number	Percent	Rank	Number	Percent
Birth Asphyxia and birth trauma	P03,P10-P15,P20-P22,P24-P29	1	178	21.6	-	-	-
Low Birth Weight	P05,P07	2	156	19	-	-	-
Diarrhoeal Diseases	A00-A09	3	26	3.2	1	43	11.3
Lower respiratory infections	J09-J22,P23,U04	4	20	2.4	5	14	3.7
COVID-19	U07.1 -U10.9	5	12	1.5	7	7	1.8
Congenital Heart Anomalies	Q24.9	6	11	1.3	8	6	1.6
Protein-energy malnutrition	E40 - E46	7	6	0.7	4	16	4.2
Other digestive diseases	K90-K93	8	6	0.7	-	-	-
endocrine disorders	E00-E88	9	6	0.7	2	20	5.2
HIV/AIDS	B20-B24	10	4	0.5	-	-	-
Road Traffic Accidents	V01-V04, V06, V09-V80, V87, V89, V99	-	-	-	3	18	4.7
Fires	X00-X09	-	-	-	6	13	3.4
Posionings	T36-T50.9	-	-	-	9	6	1.6
Drownings	W65-W74	-	-	-	10	6	1.6
<b>Causes specified above</b>			<b>425</b>	<b>51.6</b>		<b>149</b>	<b>39.1</b>
<b>Other causes</b>			<b>398</b>	<b>48.4</b>		<b>232</b>	<b>60.9</b>
<b>All causes and conditions</b>			<b>823</b>	<b>100</b>		<b>381</b>	<b>100</b>

### 3.2.6. Other Broad Age Group Categories

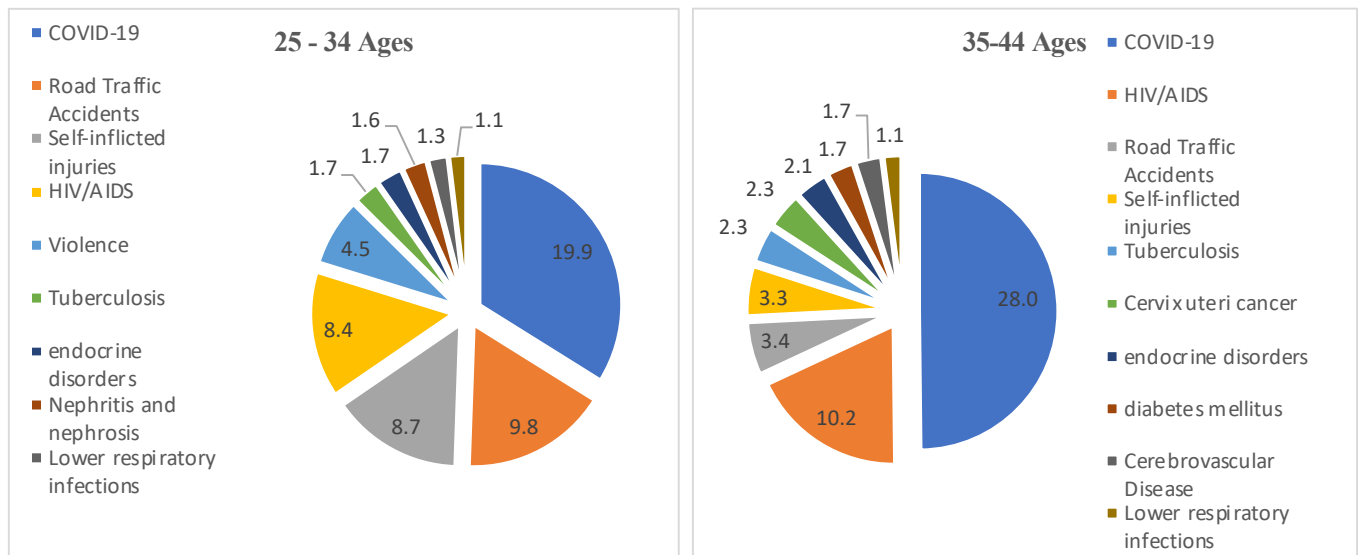
This section explains the leading underlying causes of death among the other broad age group categories. Among the broad age group **5-14 years** Road traffic accidents (9.6%) was leading, followed by Drownings (7.1%) and the third was COVID-19 (4.1%). The top ten causes of mortality among this age group (5-14) constituted 39.6 percent. The major cause of death for the age group 15-24 years was Self-inflicted injuries (13.0%), followed by Road traffic accidents (8.7%) and the third was Violence (4.9%). The top ten causes of death among **15-24 years** constituted 42.5 percent.

**Figure 7: Percentage Distribution of the 10 Leading Causes of Death, by Age Group, Botswana, 2021**



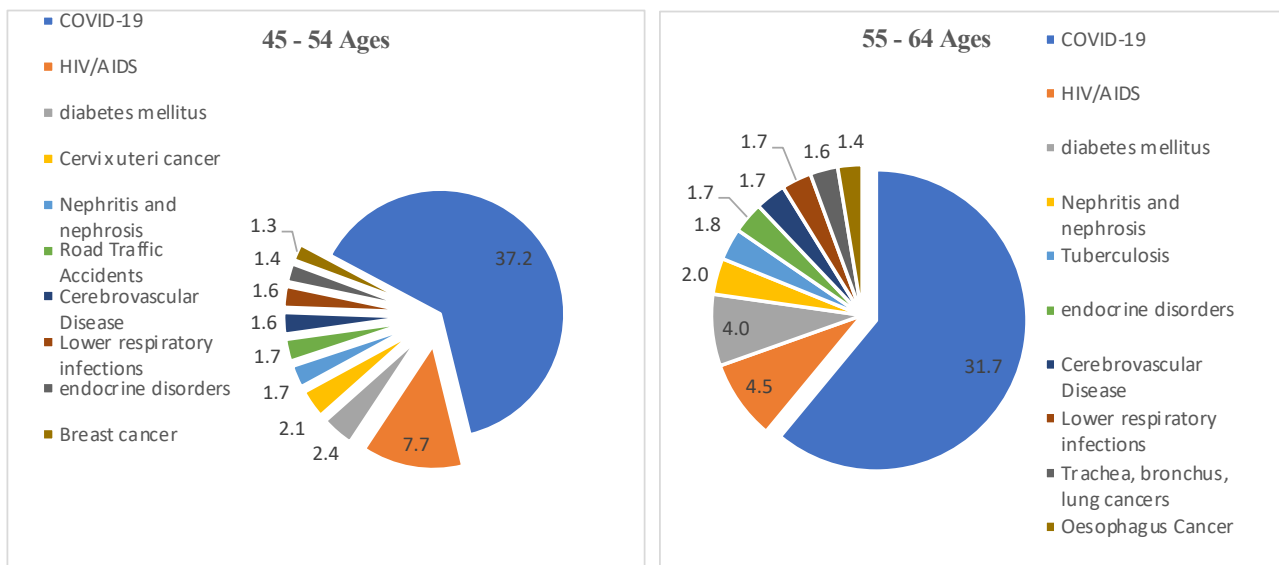
Among the population aged **25-34 years** the major cause was COVID-19 (19.9%), followed by Road traffic accidents (9.8%) and the third was Self-inflicted injuries (8.7%). The top ten underlying causes among **25-34 years** constituted 57.8 percent. For the aged population **35-44 years** the main cause of death was COVID-19 (28.0%), followed by HIV/AIDS (10.2%) and the third was Road traffic accidents (3.4%). The top ten underlying causes among 35-44 years constituted 56.2 percent.

**Figure 7: Percentage Distribution of the 10 Leading Causes of Death, by Age Group, Botswana, 2021-Cont.**



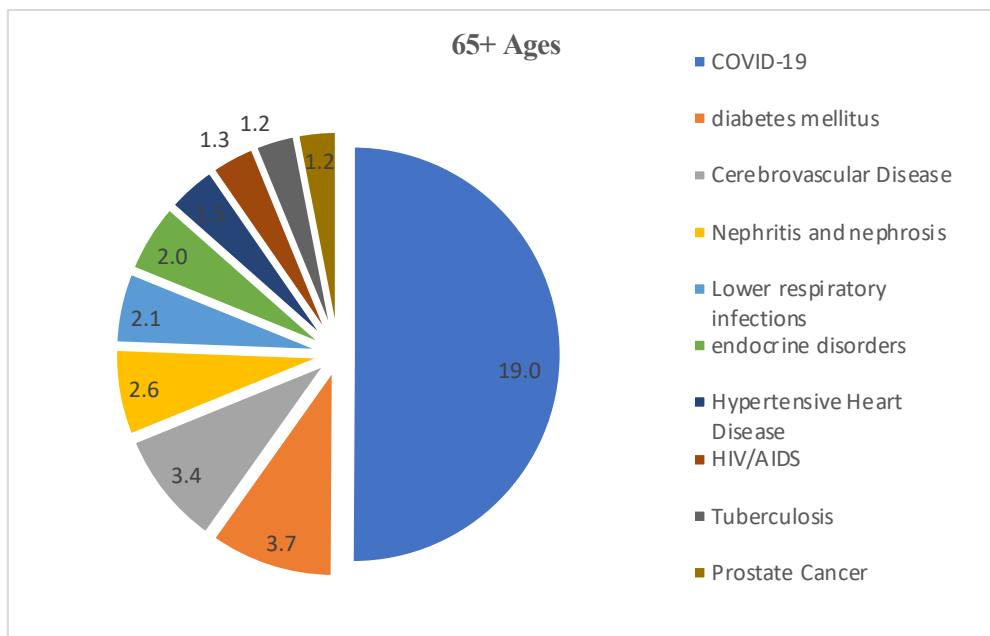
Among the **45-54 years** broad age group the major cause was COVID-19(37.2%), followed by HIV/AIDS (7.7%) and the third cause was Diabetes Mellitus (2.4%). It is also noticeable that this age group experienced the highest number of Covid-19 deaths than any other age group. The main cause of death for **55 -64 age group** was COVID-19 at (31.7%), followed by HIV/AIDS (4.5%), and Diabetes Mellitus (4.0%). For this age group the top leading causes of death contributed 52.0 percent.

**Figure 7: Percentage Distribution of the 10 Leading Causes of Death, by Age Group, Botswana,2021-Cont.**



Among the **65+ broad age** group, the leading underlying cause of death was COVID-19(19.0%), Diabetes Mellitus was the second leading cause of death (3.7%), followed by Cerebrovascular diseases (3.4%). Among the top leading causes of death for this age group, 6 of the top 10 causes of death were Non-communicable diseases.

**Figure 7: Percentage Distribution of the 10 Leading Causes of Death, By Age Group, Botswana,2021-Cont.**

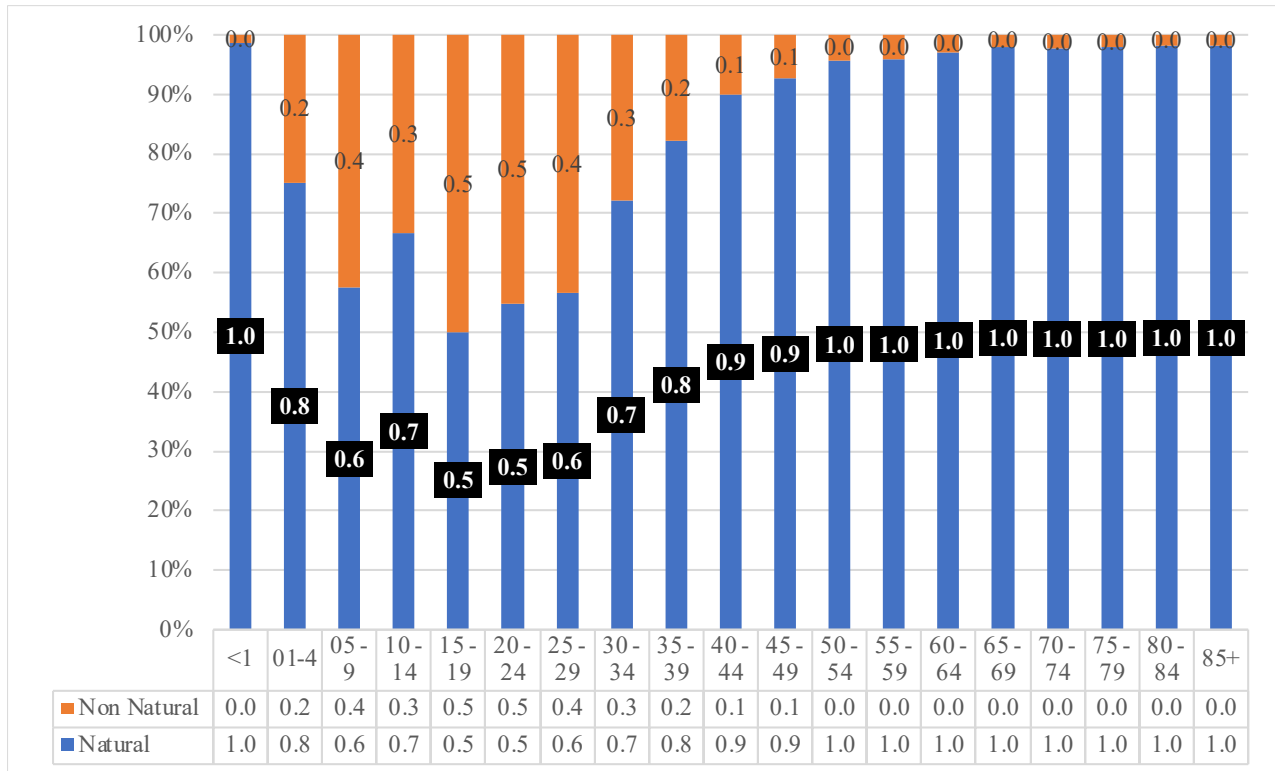




### 3.2.7. Natural and Non-Natural Causes of Death by Age

The percentage distribution of deaths due to natural and non-natural causes within age group for deaths that occurred in 2021 are shown in **Figure 8**. About one in ten (9.4%) of deaths reported in 2021 were Non-Natural cause of deaths. The general pattern observed is that the proportion of deaths due to non-natural causes within groups increases almost consistently from age 0 to age group 15 -19 years with a break in this trend observed for the age group 10–14, then decreases thereafter. Half (50%) of the 15-19 ages deaths were due to Non-Natural causes of death.

**Figure 8: Proportional Distribution of Natural and Non-Natural Causes of Death by Age, 2021**



### 3.2.8. External Causes of Death

**Table 8**, shows external cause of death by Health district in 2021. Majority of the deaths occurred in Gaborone DHMT (15.6%), followed by Kweneng East (11.3%) and Mahalapye (8.4%). The most common deaths due to injuries were from Road Traffic Accidents (33.1%), followed by self-inflicted injuries (28.2%) and other unintentional injuries (19.5%).

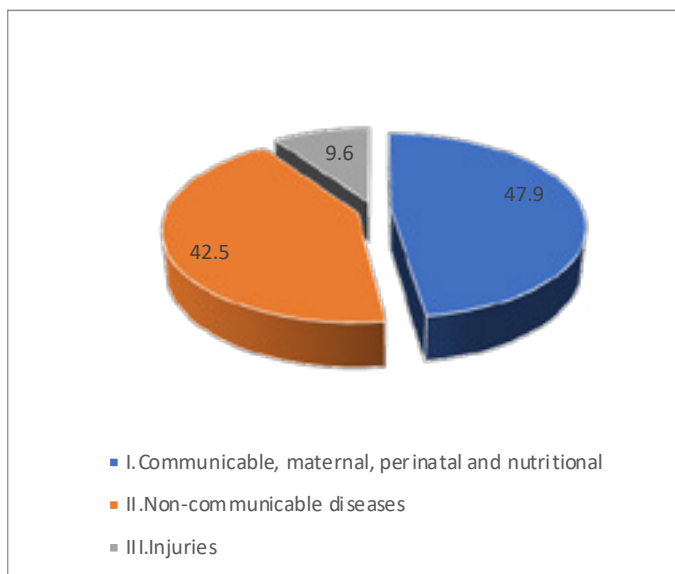
**Table 8 : Mortality Attributed to External Causes of Injuries by Health District - 2021**

Injury	Road Traffic Accidents	Poisonings	Falls	Fires	Drownings	Other Unintentional Injuries	Self-inflicted Injuries	Violence	War	Total
Gaborone	79	1	-	6	1	41	27	12	3	170
Kweneng East	39	-	-	1	2	26	39	16	-	123
Mahalapye	37	1	-	3	3	15	17	15	-	91
Francistown	24	-	2	15	1	23	16	7	-	88
Tutume	12	-	-	2	4	13	27	7	-	65
Kgatleng	32	1	-	2	3	2	14	8	-	62
Serowe	14	1	1	4	1	10	19	10	-	60
Ngamiland	11	2	1	1	4	13	21	6	-	59
Kanye	33	1	-	-	-	4	12	3	-	53
Bobirwa	6	5	-	1	1	12	12	5	-	42
Boteti	15	-	-	-	-	8	12	6	-	41
Okavango	3	-	-	2	1	9	24	-	-	39
Palapye	6	2	-	-	1	5	15	5	-	34
South East	10	-	-	-	-	6	10	1	-	27
Ghanzi	10	-	-	-	2	7	5	1	-	25
North East	3	-	-	-	1	3	11	2	-	20
Kweneng West	2	-	-	-	1	4	6	4	-	17
Kgalagadi South	6	-	-	1	1	2	3	1	-	14
Lobatse	3	-	-	-	-	2	3	2	-	10
Goodhope	4	-	-	-	-	1	3	1	-	9
Charleshill	2	-	-	-	1	1	3	1	-	8
Chobe	3	-	-	-	-	2	2	-	-	7
Jwaneng	3	-	-	1	-	-	2	-	-	6
Moshupa	1	-	-	-	2	1	2	-	-	6
Kgalagadi North	-	-	-	-	2	2	-	1	-	5
Mabutsane	-	-	-	-	-	-	1	2	-	3
Selebi-Phikwe	2	-	-	-	-	-	1	-	-	3
<b>Total</b>	<b>360</b>	<b>14</b>	<b>4</b>	<b>39</b>	<b>32</b>	<b>212</b>	<b>307</b>	<b>116</b>	<b>3</b>	<b>1,087</b>
<b>Percent</b>	<b>33.1</b>	<b>1.3</b>	<b>0.4</b>	<b>3.6</b>	<b>2.9</b>	<b>19.5</b>	<b>28.2</b>	<b>10.7</b>	<b>0.3</b>	<b>100</b>

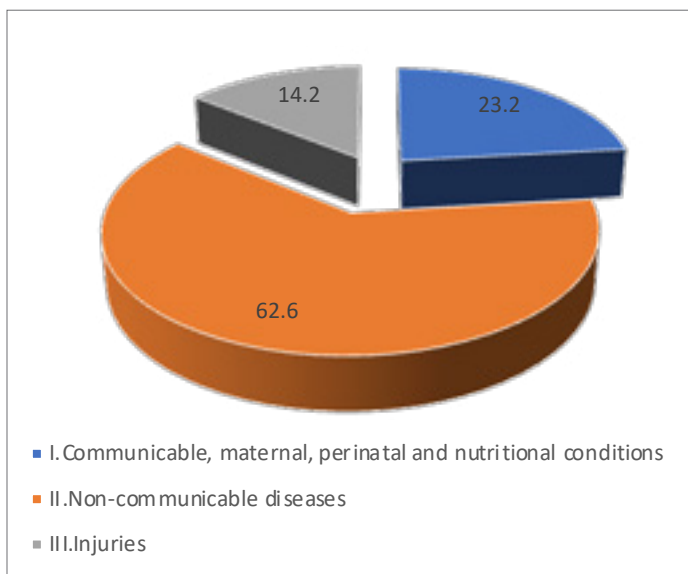
### 3.2.9. Cause of Death by Global Burden of Diseases

These sections provide underlying causes of death which are divided into three different main groups according to the Global Burden of Diseases. These three groups are **Group I:**(Communicable diseases, Nutritional, Maternal and Perinatal), **Group II:** Non-communicable diseases, and **Group III:** External causes of injuries. **Figure 9**, shows the distribution of deaths according to different categories. There were more deaths from Communicable diseases, Nutritional, Maternal and Perinatal (47.9%), followed by Non-communicable diseases (42.5%) and External causes of injuries (9.6%). **Figure 10**, provides distribution of all the deaths without Covid-19 deaths. The figure shows that without Covid -19 majority of deaths would have been from Group II (62.6%), followed by Group I (23.2%) and Group III (14.2%).

**Figure 9: Percentage Cause of Death (All)**



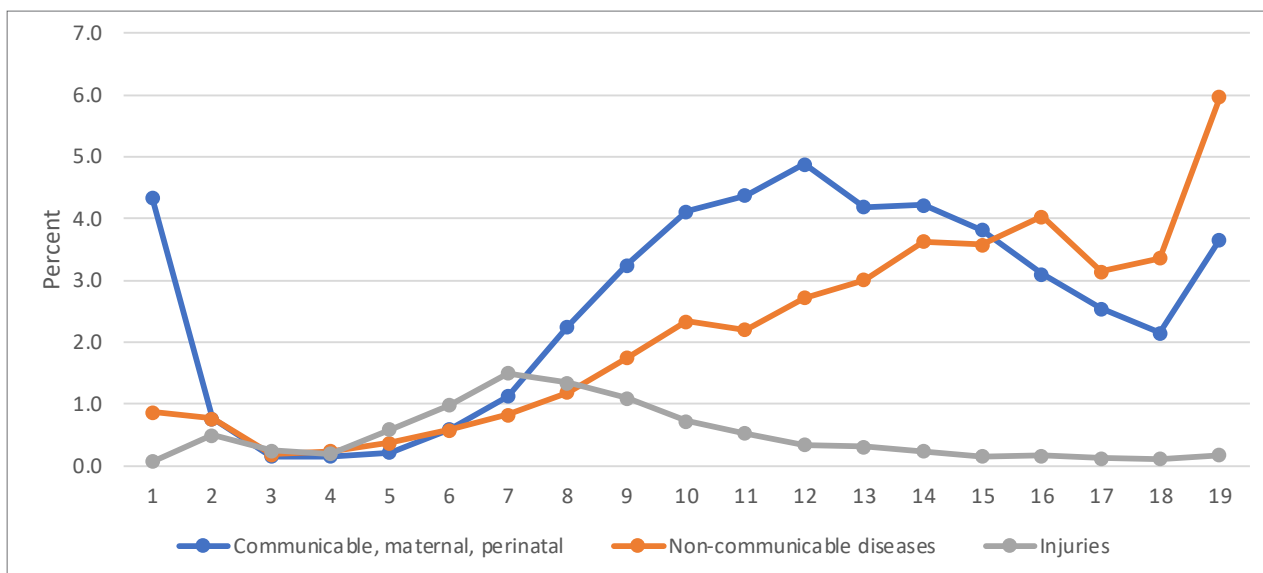
**Figure 10: Percentage of Death Without Covid19**



**3.2.10. Causes of Deaths by Group Type and Age Groups According to Global Burden of Diseases**

Figure 11, shows the distribution of causes of death for Botswana by group type and age groups. The proportion of deaths due to Group I causes (communicable diseases, maternal, perinatal and nutritional conditions) was high among children age 0 to 4 years it slows down to 5-9 years and increases steadily to the age group 40-44 years and reaching its peak at the age group 50-54 there after declining as the age range increases. Deaths due to non-communicable diseases was low among younger ages (0-24years) thereafter it increased with age. The highest peak of non-communicable diseases was observed in the age group 85+. Deaths due to Group III was low at the ages 5-14 years and high between the ages 20-29 years with a peak observed at the ages 25 – 29 and thereafter declining with age.

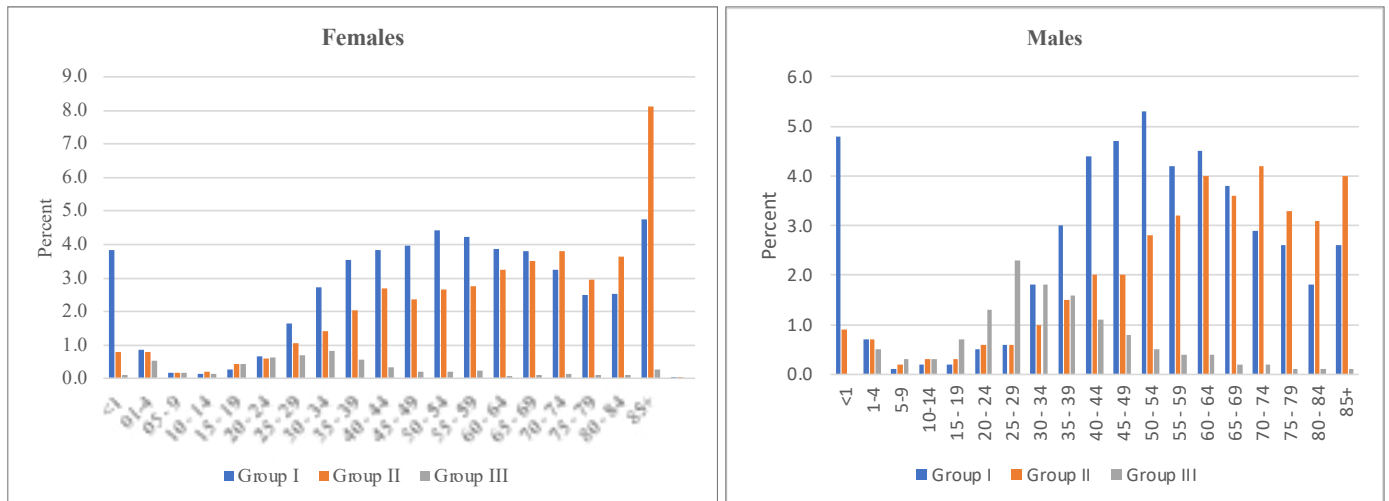
**Figure 11: Number of Death by Group Type and Age groups(Global Burden of Diseases),2021**



### 3.2.11. Global Burden of Causes of Death by Age Group and Sex, Botswana, 2021

The percentage distribution of causes of death from the three main groups by age groups and sex is reflected below in **figure 12**. Generally, communicable diseases caused more deaths among females (51.0%) than males (48.9%). Non-communicable diseases were prevalent among females (43.2%) as compared to males (35.5%) while injuries were more on male deaths (12.7%) than females (5.8%). Within the males the leading cause of death was communicable diseases (49.0%), non-communicable diseases (38.0%) and injuries (13.0%). Among the females most of the deaths were attributable to Communicable diseases (51.1%), followed by Non-Communicable diseases (43.0%), then injuries (6.0%). Comparing Males and Females there is no significant variation in the patterns of deaths due to Communicable and Non-communicable diseases with respect to Age. However among the injuries more deaths were observed among males between 15-39 Years with a peak in 25-29 years.

**Figure 12: Percentage Distribution of Causes of Death by Age and Sex.**



## 4. SUMMARY OF SDG INDICATORS

Botswana subscribes to the Sustainable Development Goal (SDGs) of ‘ensuring healthy lives and promoting wellbeing for all ages. This section will assess Botswana’s progress to attainment of SDG 3 indicators involving cause of death. The SDGs commits countries to reducing global Maternal Mortality Ratio (MMR) to less than 70 deaths per 100,000 live births, By 2020, halve the number of global deaths and injuries from road traffic accidents and by 2030, reduce by one third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being.

### 4.1. Reduce the Global Maternal Mortality Ratio

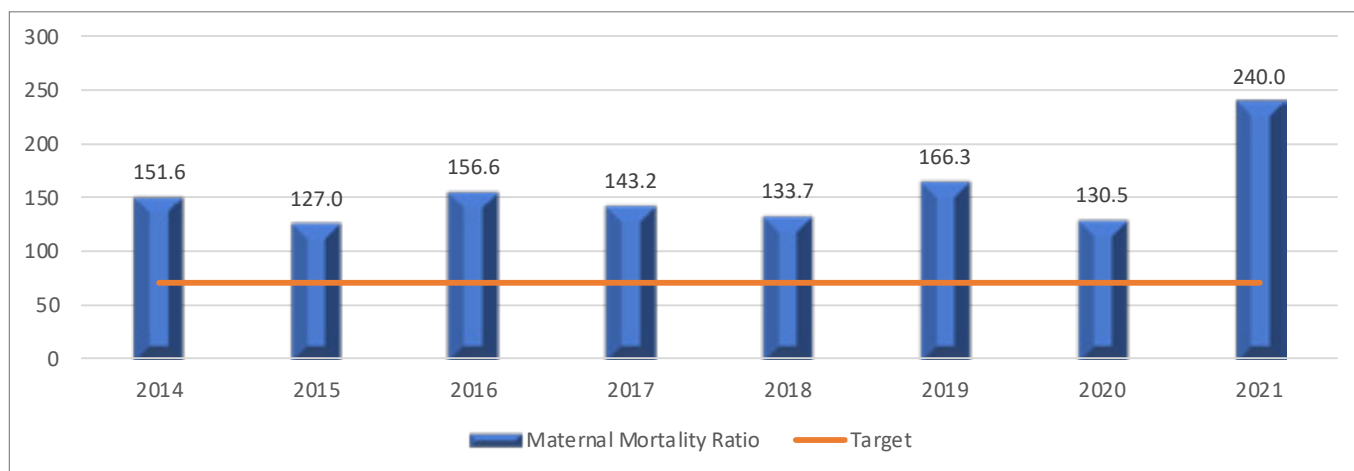
Botswana Maternal Mortality Ratio for the period 2014 to 2021 is shown in **Table 9** below. The MMR sharply increased from 130.5 to 240.0 per 100,000 live-births between 2020 and 2021. Over the years from 2014 the MMR has been fluctuating with the highest recorded in 2021 (240.0) and the lowest in 2015 (127.0).

**Table 9: Botswana Maternal Mortality Ratio 2014–2021**

Variable	2014	2015	2016	2017	2018	2019	2020	2021
Institutional live births	47,273	57,290	54,159	52,242	52,999	52,206	58,146	53,227
Non-Institutional live-births	205	190	108	116	117	98	98	99
Total live-births	47,478	57,480	54,267	52,358	53,115	52,304	58,244	53,326
Maternal Deaths	72	73	85	75	71	87	76	128
Maternal Morality Ratio (per 100,000 live-births)	151.6	127.0	156.6	143.2	133.7	166.3	130.5	240.0

**Figure 13** shows trends in Maternal Mortality Ratio from 2014 – 2021 in relation to the set target of 70 deaths per 100,000 live births. The figure shows that the country has not reached the 70 per 100,000 live births since 2014. However in 2021 there was a major setback in Botswana trying to attain the SDG 3.1c with most maternal deaths recorded attributed mainly to COVID-19.

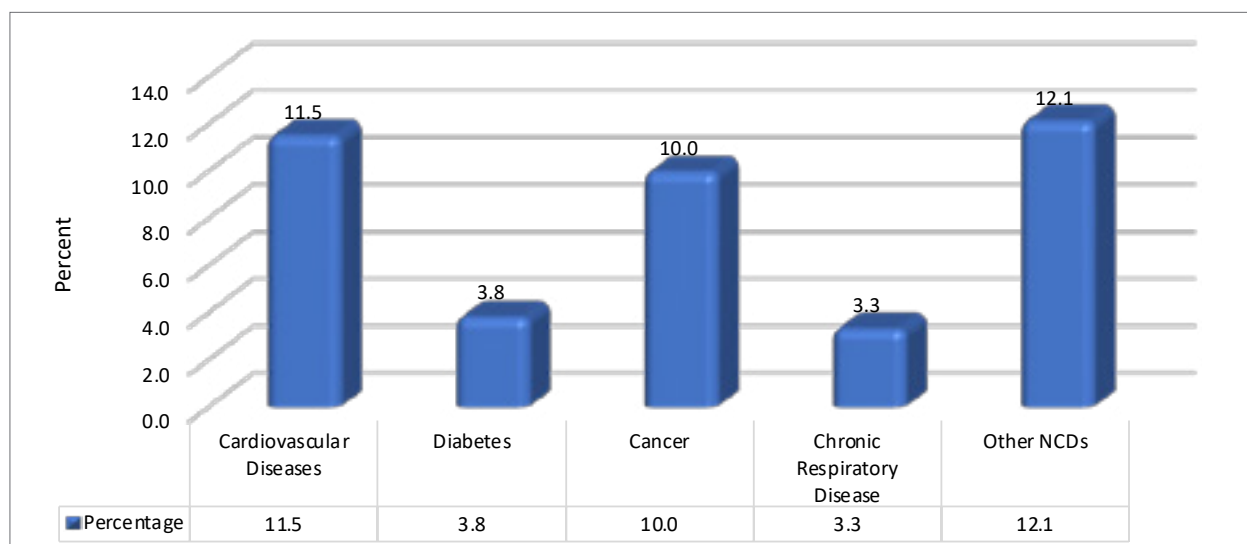
**Figure 13: Botswana Maternal Mortality Ratio 2014-2021**



## 4.2. Mortality Rate Attributed to Cardiovascular Disease, Cancer, Diabetes or Chronic Respiratory Disease

SDG Target 3.4 commits countries to reduce by one third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being. One key indicator in the target is Mortality rate attributed to cardiovascular disease, cancer, diabetes or chronic respiratory disease. **Figure 14** shows the proportional distribution of mortality in 2021 taking in to consideration the key mortality indicator. Among all deaths reported in 2021 Cancers contributed 10 percent ,Diabetes (3.8%),Cardiovascular diseases (11.5%) and chronic respiratory diseases(3.3%) .

**Figure 14 : Percentage of Mortality Attributable to Cardiovascular Disease, Diabetes, Cancer and Chronic Respiratory Diseases**



## 4.3. Halve the Number of Global Deaths and Injuries from Road Traffic Accidents

**Table 10**, shows reported Death Rate due to Road Traffic Accidents(RTA). Death rate due to road traffic injuries is defined as the number of road traffic fatal injury deaths per 100,000 population. The table shows that there were 15 RTA deaths per 100,000 population in 2021. Majority of the RTA were in males compared to females. The RTA were also predominantly in the 25-34 years age group followed by 35-44 Years and 45-54 years. Road traffic accidents contributed 2.8 percent of all deaths in 2021.

**Table 10: Adjusted and Unadjusted Death Rate due to Road Traffic Accidents(RTA),2021**

Age group	2021 Population			Reported RTA deaths			Death rate due to RTA(per 100,000 population)		
	Males	Females	Total	Male	Female	Total	Male	Female	Total
01-4	113,504	112,308	<b>225,812</b>	12	7	19	11	6	<b>8</b>
05 - 14	238,564	236,392	<b>474,956</b>	9	10	19	4	4	<b>4</b>
15 - 24	212,750	209,492	<b>422,242</b>	34	12	46	16	6	<b>11</b>
25 - 34	201,483	207,290	<b>408,773</b>	88	34	122	44	16	<b>30</b>
35 - 44	182,213	189,054	<b>371,267</b>	54	18	72	30	10	<b>19</b>
45 - 54	112,109	114,208	<b>226,317</b>	32	8	40	29	7	<b>18</b>
55 - 64	62,672	77,772	<b>140,444</b>	16	9	25	26	12	<b>18</b>
65+	52,653	70,935	<b>123,588</b>	11	6	17	21	8	<b>14</b>
<b>Total</b>	1,175,948	1,217,451	<b>2,393,399</b>	256	104	360	22	9	<b>15</b>



#### 4.4. Reduce Homicide

**Table 11** , shows Suicide Mortality Rate for Botswana in 2021 from the reported deaths. The Suicide mortality rate is defined as the number of suicide deaths in a year, divided by the population, and multiplied by 100 000. The table shows that there were 13 Suicide deaths per 100,000 population from the reported deaths in 2021. The suicide mortality rate was more evident in males (21 suicide deaths per 100,000 population) compared to females (5 suicide deaths per 100,000 population). The peak of suicide deaths were also predominantly in the 25-34 years age group followed by 35-44 Years and 15-24 years. Generally suicidal mortality is low in younger ages (0-14 years) highest in middle (15-44 years) and also low in older ages (45+). Suicidal deaths contribute 2.4 percent of all deaths.

**Table 11: Suicide Mortality Rate**

Age Group	2021 Population Projections			Suicide deaths			Suicide Mortality Rate(per 100,000 population)		
	Males	Females	Total	Male	Female	Total	Male	Female	Total
<b>0-4</b>	113,504	112,308	<b>225,812</b>	0	0	0	0	0	<b>0</b>
<b>05 - 14</b>	238,564	236,392	<b>474,956</b>	5	2	7	2	1	<b>1</b>
<b>15 - 24</b>	212,750	209,492	<b>422,242</b>	49	20	69	23	10	<b>16</b>
<b>25 - 34</b>	201,483	207,290	<b>408,773</b>	88	21	109	44	10	<b>27</b>
<b>35 - 44</b>	182,213	189,054	<b>371,267</b>	57	11	68	31	6	<b>18</b>
<b>45 - 54</b>	112,109	114,208	<b>226,317</b>	21	4	25	19	4	<b>11</b>
<b>55 - 64</b>	62,672	77,772	<b>140,444</b>	15	1	16	24	1	<b>11</b>
<b>65+</b>	52,653	70,935	<b>123,588</b>	7	4	11	13	6	<b>9</b>
<b>Total</b>	<b>1,175,948</b>	<b>1,217,451</b>	<b>2,393,399</b>	<b>242</b>	<b>65</b>	<b>307</b>	<b>21</b>	<b>5</b>	<b>13</b>

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## 6. APPENDICES

### Annex 1 :Percentage Distribution of Deaths by Health District, 2021

Annex 1 :Percentage Distribution of Deaths by Health District, 2021

Health District	Total	Percent
Gaborone	3,753	21.3
Kweneng East	1,830	10.4
Francistown	1,734	9.9
Kanye	1,084	6.2
Serowe	1,044	5.9
Mahalapye	1,011	5.7
Kgatleng	882	5.0
Ngamiland	810	4.6
Tutume	806	4.6
Boteti	473	2.7
South East	438	2.5
Bobirwa	421	2.4
Okavango	384	2.2
Palapye	384	2.2
Ghanzi	359	2.0
North East	319	1.8
Lobatse	290	1.6
Goodhope	271	1.5
Kgalagadi South	208	1.2
Kweneng West	214	1.2
Selebi-Phikwe	198	1.1
Jwaneng	173	1.0
Kgalagadi North	154	0.9
Chobe	117	0.7
Moshupa	117	0.7
Charleshill	61	0.3
Mabutsane	54	0.3
<b>Total</b>	<b>17,589</b>	<b>100</b>

Annex 2: Mortality (Excluding Neonates) According to Global Burden of Diseases Study Classification System for Diseases and Injuries by Health District and Sex,2021

Cause	ICD10Codes	Sex	Botswana	Charlehill	Chobe	Francistown	Gaborone	Ghanzi	Goodhope	Jwaneng	Kanye	Kgalagadi North	Kgalagadi South	Katleng	Kweneng East	Kweneng West	Lobatse	Mabutsane	Mahalapye	Moshupa	Ngamitland	North East	Okavango	Palapye	Selebi-Phikwe	Serowe	South East	Tutume	Grand Total	
1.Communicable, Maternal, Perinatal and nutritional conditions	A00-B99, D50-D53, D64.9, E00-E02, E40-E46, E50-E64, G00-G04, G14, H65-H66, J00-J22, N70-N73, O00-O99, P00-P96, U04, U07.1, U07.2, U09.9, U10.9	F	58	78	10	21	251	866	70	38	69	115	19	29	156	261	16	66	2	139	10	113	42	32	77	43	165	102	102	2,950
		M	35	92	7	17	235	1,012	76	33	48	127	41	33	153	226	24	61	8	108	9	138	46	42	69	37	149	89	75	2,990
A.Infectious and Parasitic Diseases	A00-B99,G00-G04,G14,N70-N73,P37.3,P37.4	F	27	19	1	3	64	111	17	6	13	30	5	3	36	41	6	13	2	37	2	41	10	15	28	10	36	22	39	637
		M	17	32	2	3	80	120	20	9	7	42	8	9	42	75	7	17	2	35	1	46	6	13	26	12	35	18	35	719
1.Tuberculosis	A15-A19,B90	F	1	0	0	9	15	8	1	0	1	2	2	4	8	2	2	0	4	0	6	1	3	1	0	4	1	4	4	79
M		4	4	0	1	14	23	8	2	3	12	3	2	14	24	2	1	2	10	1	6	0	1	5	2	13	0	12	169	
2.STDs Excluding HIV	A50-A64,N70-N73	F	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3.HIV/AIDS	B20-B24	F	18	16	1	2	25	60	4	3	9	13	3	0	23	21	1	8	2	22	1	23	7	7	17	9	23	18	22	358
M		8	25	1	2	39	71	5	6	4	18	1	5	22	37	4	15	0	14	0	31	6	7	17	9	17	11	16	391	
4.Diarrhoeal Diseases	A00,A01,A03,A04,A06-A09	F	4	2	0	0	14	10	3	1	2	4	0	1	6	7	1	3	0	9	0	7	1	1	5	0	6	3	12	102
5.Childhood Cluster Diseases	A33-A37,A80,B05,B91,G14	M	2	2	1	0	10	8	3	1	0	2	3	1	4	11	0	0	0	8	0	2	0	3	1	1	2	2	3	70
M		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
6.Meningitis	A39,G00,G03	F	0	0	0	3	5	1	0	0	1	0	0	0	1	0	0	0	1	0	1	0	1	0	1	0	1	0	0	15
M		0	0	0	2	2	0	0	0	4	0	0	0	0	0	0	0	0	1	0	3	0	0	1	0	0	2	1	16	
7.Hepatitis B	B16-B19	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
M		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	
8.Hepatitis C	B17.1-B18.2	M	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9.Malaria	B50-B54,P37.3,P37.4	F	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	4
M		0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	2	1	2	10	
Other Infectious diseases	A02,A05,A20-A28,A31,A32,A38,A40-A49,A65-A70,A74-A79,A81,A82,A83.1-A83.9,A84-A89,A92-A99,B00-B04,B06-B15,B17.2,B18.8,B25-B49,B58-B60,B64,B66-B72,B74.3-B74.9,B75,B82-B89,B92-B99,G04	F	4	0	0	1	12	21	1	1	2	11	0	0	2	4	1	0	0	1	1	3	1	4	4	1	0	0	1	76
M		3	1	0	0	11	15	4	0	0	6	1	1	2	3	1	1	0	1	0	2	0	1	2	0	1	2	1	59	
B.Respiratory Infections	H65-H66, J00-J22, P23, U04, U07.1, U07.2, U09.9, U10.9	F	27	55	9	17	161	722	45	31	55	78	13	23	111	199	10	49	0	91	7	65	30	14	46	26	118	77	53	2,132
M		14	57	5	14	140	880	52	22	41	84	32	21	102	138	16	42	6	72	8	86	40	24	40	25	105	66	36	2,168	
1.Lower respiratory infections	H65-H66,J00-J22,P23.	F	4	4	1	0	31	29	5	7	0	7	0	2	4	7	0	4	0	2	0	8	1	6	2	1	12	5	6	148
M		2	7	0	1	21	25	4	8	1	11	3	4	13	6	3	3	0	7	0	9	0	5	5	1	8	10	4	161	
2.COVID-19	U07.1, U07.2, U09.9, U10.9	F	23	51	8	17	130	692	40	24	55	71	13	21	107	192	10	45	0	89	7	55	29	8	44	25	105	72	47	1,980
M		12	49	5	13	118	853	48	14	40	72	29	17	89	131	13	39	6	65	8	77	40	19	35	24	97	56	32	2,001	
F	J00-J06	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	4	
M		0	1	0	0	1	2	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6

Annex 2: Mortality (Excluding Neonates) According to Global Burden of Diseases Study Classification System for Diseases and Injuries by Health District and Sex, 2021 Cont..

Cause	ICD10Codes	Sex	Botlwa	Boteti	Charashill	Chobe	Francistown	Gaborone	Ghanzi	Goodhope	Jwaneng	Kanye	Kgalagadi North	Kgalagadi South	Kgatleng	Kweneng East	Kweneng West	Lobatse	Mabutsane	Mahalapye	Moshupa	Ngamlland	North East	Okavango	Palapye	Selebi-Phikwe	Serowe	South East	Tlume	Grand Total
<b>C. Maternal Conditions</b>	<b>O00-O99</b>	F	1	0	0	0	6	15	1	0	0	0	0	2	0	3	0	1	0	1	0	1	0	1	0	2	2	0	5	42
1. Maternal haemorrhage	O44-O46, O67, O72	F	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	1	1	0	2	10
2. Hypertensive Disorders	O10-O16	F	1	0	0	0	3	6	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	14
3. Abortion	O00-O07	F	0	0	0	0	0	3	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	8
4. Other Maternal Conditions	O20-O43, O47-O63, O68-O71, O73-O75, O87-O99	F	0	0	0	0	2	5	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	10
<b>D. Perinatal Conditions</b>	<b>P00-P96 (minus P23, P37.3, P37.4)</b>	F	0	0	0	0	2	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6
		M	0	1	0	0	3	2	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	2	0	12
1. Low Birth Weight	P05, P07	F	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
		M	0	1	0	0	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
2. Birth Asphyxia and birth trauma	P03, P10-P15, P20-P22, P24-P29	F	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
		M	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	2	0	5
3. Other perinatal conditions	P00-P02, P04, P08, P35-P96	F	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
		M	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<b>E. Nutritional Deficiencies</b>	<b>E00-E02, E40-E46, E50, D50-D53, D64.9, E51-E64</b>	F	3	4	0	1	18	16	6	1	1	7	1	1	9	17	0	3	0	10	0	6	2	2	3	5	9	3	5	133
		M	4	2	0	0	12	10	4	2	0	1	1	2	8	13	1	2	0	1	0	5	0	5	2	0	9	3	4	91
1. Protein-energy malnutrition	E40-E46	F	0	3	0	0	2	2	3	0	0	0	0	0	0	0	0	0	0	3	0	2	0	1	0	1	0	0	2	19
		M	0	1	0	0	2	1	2	0	0	0	1	0	1	4	1	0	0	0	0	3	0	2	1	0	1	2	3	25
2. Iron-Deficiency Anaemia	D50, D64.9	F	3	1	0	1	15	14	3	1	1	7	1	1	9	17	0	3	0	6	0	4	2	1	3	4	9	3	112	
		M	4	1	0	0	10	9	2	2	0	1	0	2	7	9	0	2	0	1	0	2	0	3	1	0	7	1	65	

Cause	ICD10Codes	Sex	Botlwa	Botlhi	Charleshill	Chobe	Francistown	Gaborone	Ghanzi	Goodhope	Jwaneng	Kanye	Kgilagadi North	Kgilagadi South	Kgatleng	Kweneng East	Kweneng West	Lobatse	Mabutsane	Mahalapye	Moshupa	Ngamiland	North East	Okavango	Palapye	Selebi-Phikwe	Serowe	South East	Tutume	Grand Total	
II.Non-communicable diseases	C00-C97, D00-D48, D55-D64 (minus D 64.9) D65-D89, E03-E07, E10-E34, E65-E88, F01-F99, G06-G98 (minus G14), H00-H61, H68-H93, I00-I99, J30-J98, K00-K92, L00-L98, M00-M99, N00-N64, N75-N98, Q00-Q99, R95, U07.0, X41, X42, X44, X45	F	62	55	9	19	401	562	48	42	19	105	30	30	125	242	23	35	22	131	12	122	36	64	73	42	139	89	148	2,685	
		M	47	64	17	10	413	575	43	41	15	106	26	26	98	249	15	39	14	132	17	122	26	67	58	35	135	86	107	2,589	
A.Malignant Neoplasms	C00-C97	F	11	12	0	5	117	180	5	8	5	20	3	3	28	44	2	10	5	34	1	25	8	11	20	18	35	15	38	663	
		M	5	16	6	2	118	169	9	7	2	20	4	5	26	57	2	6	2	40	2	30	3	4	12	6	33	14	19	619	
1.Mouth and oropharynx cancers	C00-C14	F	0	0	0	3	3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	1	0	0	0	0	11	
		M	0	0	2	1	5	7	0	1	0	1	1	1	0	2	0	0	0	1	0	3	0	0	2	0	1	0	1	28	
2.Oesophagus Cancer	C15	F	0	1	0	0	12	4	0	0	0	0	0	0	2	5	0	0	1	1	0	0	1	0	3	1	3	1	3	38	
		M	0	2	0	0	19	17	1	1	0	4	1	0	7	12	1	0	1	4	0	3	0	0	2	0	2	1	2	80	
3.Stomach cancer	C16	F	0	1	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	6	
		M	1	1	0	0	3	7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	1	16	
4.Colon and rectum cancer	C18-C21	F	1	0	0	0	5	10	0	2	0	0	1	0	1	0	1	1	0	2	0	1	1	0	1	2	1	0	1	31	
		M	0	0	0	0	7	11	0	0	0	1	0	2	2	6	0	1	0	2	0	1	0	0	0	1	1	4	0	39	
5.Liver cancer	C22	F	0	0	0	0	10	12	0	0	0	0	0	0	0	0	0	1	0	2	0	1	1	1	1	1	2	1	0	33	
		M	0	4	2	0	17	10	0	0	0	2	0	0	2	6	0	1	0	3	0	3	1	0	0	0	2	1	2	56	
6.Pancreas cancer	C25	F	0	0	0	0	3	6	0	0	0	0	1	0	0	0	0	1	0	2	0	0	0	0	2	0	1	0	0	16	
		M	0	0	0	0	3	6	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	17	
7.Trachea, bronchus, lung cancers	C33-C34	F	0	2	0	1	4	8	0	0	0	0	0	2	0	1	0	0	0	3	0	4	1	1	0	1	2	0	1	31	
		M	1	2	0	0	23	23	0	1	0	0	0	0	3	7	1	1	0	11	0	3	0	0	1	1	7	5	2	92	
8.Melanoma and other skin cancers	C43-C44	F	1	1	0	0	0	1	0	0	1	0	0	0	0	3	1	0	0	1	0	0	1	1	1	0	0	0	0	13	
		M	0	1	0	0	3	4	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	13	
9.Breast cancer	C50	F	2	1	0	0	11	30	1	3	4	8	0	0	4	8	0	3	1	5	0	2	0	2	1	1	7	8	8	110	
		M	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	6	
10.Cervix uteri cancer	C53	F	2	2	0	2	36	36	2	1	1	2	1	1	10	11	0	1	2	12	1	8	0	3	5	2	11	1	14	167	
11.Corpus uteri cancer	C54-C55	F	1	1	0	1	7	4	0	1	0	2	0	0	2	3	0	0	0	1	0	1	0	0	1	0	1	0	2	28	
12.Ovary Cancer	C56	F	0	0	0	0	6	11	0	0	0	1	0	0	0	2	0	0	0	0	0	1	0	0	0	2	0	2	0	25	
13.Prostate Cancer	C61	M	1	3	1	1	6	23	4	3	1	4	2	1	5	13	0	1	0	9	1	5	1	2	1	2	8	3	2	103	
14.Bladder cancer	C67	F	0	0	0	0	0	0	0	0	0	1	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
15.Lymphomas, multiple myeloma	C81-C90,C96	M	0	0	0	0	3	3	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	1	10	
		F	0	0	0	0	2	11	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	2	1	0	1	20	
16.Leukemia	C91-C95	M	0	0	0	0	2	14	0	0	0	1	0	0	0	1	0	0	0	2	0	2	0	0	2	0	2	0	0	26	
		F	1	0	0	0	1	5	0	1	0	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0	0	13	
17.Other Malignant Neoplasms	C17, C26-C31, C37-C41, C46-C49, C51, C52, C57-C60, C63, C68, C69, C74-C75, C77- C79	M	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	9
		F	3	3	0	1	17	36	1	0	0	4	0	0	7	7	0	2	0	4	0	4	3	1	3	6	5	2	8	117	
		M	2	3	1	0	25	38	3	1	1	7	0	1	4	8	0	1	1	5	1	4	1	1	4	2	3	0	7	124	



Cause	ICD10Codes	Sex	Botlwa	Boteti	Charleshill	Chobe	Francistown	Gaborone	Ghanzi	Goodhope	Jwaneng	Kanye	Kgalagadi North	Kgalagadi South	Kgatleng	Kweneng East	Kweneng West	Lobatse	Mabutsane	Mahalapye	Moshupa	Ngamitland	North East	Okavango	Palapye	Selebi-Phikwe	Serowe	South East	Tlume	Grand Total	
B. Other Neoplasms	D00-D48	F	0	1	0	0	1	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	6	
		M	0	0	0	1	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	6
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C. Diabetes Mellitus	E10-E14	F	8	4	0	4	44	58	2	7	0	9	3	2	23	28	1	8	2	15	1	7	5	2	7	6	14	17	20	297	
		M	5	5	0	1	27	53	3	3	2	8	0	1	5	12	1	7	1	13	1	6	4	4	7	2	11	6	7	195	
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D. Endocrine Disorders	D55-D64 (minus D64.9), D65-D89, E03-E07, E15-E16, E20-E34, E65-E88	F	3	5	0	2	24	37	8	5	2	13	4	3	4	20	1	3	0	9	0	9	3	7	3	3	8	3	7	186	
		M	2	2	0	0	25	34	3	2	1	6	0	5	7	7	0	5	0	5	0	11	3	6	1	2	13	1	4	145	
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E. Neuro Psychiatric Conditions	F01-F99, G06-G98 (minus G14), U07.0, X41, X42, X44, X45	F	5	5	1	0	16	20	2	1	0	0	0	3	4	6	0	1	3	2	0	3	2	2	1	1	8	4	4	94	
		M	6	2	2	0	19	21	3	2	1	4	2	1	4	14	0	0	3	5	1	8	0	5	2	3	10	6	8	132	
			0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
1. Unipolar Depressive Disorders	F32-F33	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2. Schizophrenia	F20-F29	F	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	4	
3. Epilepsy	G40-G41	M	0	0	0	0	0	0	0	1	0	1	0	1	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	7	
		F	0	0	0	1	2	1	0	0	0	0	0	0	0	1	3	0	0	1	0	0	0	0	0	0	0	1	1	12	
		M	1	1	0	3	1	1	0	0	1	0	0	1	1	6	0	0	0	3	0	3	0	2	2	2	2	1	1	31	
4. Alcohol use disorders	F10	F	0	0	0	0	0	1	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
		M	0	0	0	2	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	7	
		F	2	2	0	0	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	0	2	1	15	
6. Parkinson Disease	G20-G21	M	1	1	0	2	2	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	3	1	0	16
		F	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3	
		M	1	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	7	
7. Multiple Sclerosis	G35	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
		F	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
		F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
10. Mental Retardation	F70-F79	F	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
		F	3	1	1	0	13	13	0	0	0	0	0	0	0	3	2	0	1	1	1	1	0	2	0	0	5	2	1	49	
		M	3	0	1	0	12	16	0	1	1	1	1	1	0	1	5	0	0	3	1	0	3	0	1	0	4	3	6	64	
F. Sense Organ Diseases	H00-H61, H68-H93	F	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
		M	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	
		F	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
1. Glaucoma	H40	M	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
		M	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
		M	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
5. Other sense organ disorders	H00-H21, H27-H35, H43-H61 (minus H52.4), H68-H83, H92-H93	M	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
		M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
		M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

Cause	ICD10Codes	Sex	Botlwa	Boblwa	Charleshill	Chobe	Francistown	Gaborone	Ghanzi	Goodhope	Jwaneng	Kanye	Kgalagadi North	Kgalagadi South	Kgatleng	Kweneng East	Kweneng West	Lobatse	Mabutsane	Mahalapye	Moshupa	Ngamiland	North East	Okavango	Palapye	Selebi-Phikwe	Serowe	South East	Tlume	Grand Total
G.Cardio Vascular Diseases	I00-I99	F	22	17	7	3	98	125	17	14	8	42	7	12	37	94	12	6	8	42	9	37	11	21	18	9	51	25	61	813
		M	12	17	6	0	69	129	9	11	3	29	6	13	33	66	9	10	5	36	6	34	12	25	8	12	37	37	33	667
1.Rheumatic Heart Disease	I01-I09	F	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3
		M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
2.Hypertensive Heart Disease	I11-I15	F	2	1	1	0	17	10	1	1	0	1	0	0	3	11	1	2	0	4	0	3	2	3	0	2	1	3	4	73
		M	2	2	0	0	12	12	1	1	1	4	0	1	5	5	0	4	0	2	0	3	0	2	1	0	4	2	6	70
3.Ischaemic Heart Disease	I20-I25	F	0	1	0	0	1	4	0	0	1	2	0	0	2	1	0	0	0	1	0	2	1	2	1	0	2	5	3	29
		M	1	0	1	0	0	8	0	0	0	2	0	1	3	0	1	0	0	1	1	2	0	5	0	1	1	7	1	36
4.Cerebrovascular Disease	I60-I69	F	3	3	1	0	39	41	6	3	5	10	2	3	4	22	4	0	0	14	1	16	4	0	3	2	17	5	14	222
		M	2	1	0	0	24	45	2	4	0	4	1	0	4	17	0	0	0	11	2	12	5	0	2	6	13	8	4	167
5.Inflammatory Heart Disease	I30-I33	F	0	0	0	1	3	9	0	2	0	0	0	0	1	3	0	0	0	0	0	1	0	0	1	0	0	1	1	23
		M	1	0	0	0	2	10	0	1	0	1	1	0	1	3	1	1	0	1	0	0	1	1	1	1	1	0	1	28
6.Other Cardiovascular Diseases	I00, I26-I28, I34-I37, I44-I45, I47 (minus I47.2), I48, I49 (minus I49.0), I51.0-I51.3, I51.7-I51.8, I70 (minus I70.9), I71-I99	F	17	12	5	2	38	60	10	7	2	29	5	9	27	57	7	4	8	23	8	15	4	16	13	5	30	11	39	463
		M	6	14	5	0	31	54	6	5	2	18	4	11	20	41	7	5	5	21	3	17	6	17	4	4	18	20	21	365
H.Respiratory Diseases	J30-J98	F	2	1	0	3	13	35	7	1	1	3	5	4	7	22	2	1	1	3	0	12	1	4	4	1	6	9	4	152
		M	6	9	1	1	39	42	10	8	3	11	4	5	5	5	46	1	3	1	11	1	10	0	9	6	11	14	12	275
1.Chronic Obstructive Pulmonary Disease	J40-J44	F	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
		M	2	2	0	0	9	2	5	0	0	4	0	0	1	12	0	1	1	5	0	0	0	0	1	2	3	4	4	58
2.Asthma	J45-J46	F	0	1	0	1	1	10	0	0	0	0	2	1	3	4	0	0	1	0	0	3	1	1	2	0	0	4	3	38
		M	1	1	1	0	4	5	1	3	0	4	0	0	2	5	1	0	0	3	1	2	0	4	0	0	0	3	1	42
3.Other respiratory diseases	J30-J39, J47-J48	F	2	0	0	2	12	25	6	1	1	3	2	3	4	18	1	1	0	3	0	9	0	3	2	1	6	5	1	111
		M	3	6	0	1	26	35	4	5	3	3	4	5	2	29	0	2	0	3	0	8	0	5	5	4	8	7	7	175
I.Digestive Diseases	K20-K92	F	3	2	0	1	33	46	3	3	3	4	2	2	6	14	3	1	2	9	0	9	2	6	6	1	8	4	2	175
		M	5	5	2	2	38	62	0	3	1	6	1	2	9	18	1	3	0	8	2	12	3	6	8	0	7	5	11	220
1.Peptic Ulcer Disease	K25-K27	F	0	0	0	2	1	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	1	0	10
		M	1	1	1	0	1	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	1	12
2.Cirrhosis of the liver	K70,K74	F	1	0	0	1	2	3	0	0	0	0	0	0	2	1	0	0	1	0	0	0	0	0	1	1	0	0	0	13
		M	2	0	0	2	8	0	0	1	0	0	0	0	1	2	0	1	0	0	3	0	0	0	0	0	3	2	2	27
3.Appendicitis	K35-K37	F	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
		M	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
4.Other digestive diseases	K20-K22, K28, K30-K31, K38, K40-K46, K55, K57, K589, K59-K66, K71-K73, K75-K76, K90-K92	F	2	2	0	0	28	40	3	2	2	4	2	2	3	13	3	1	1	9	0	8	1	6	5	0	7	3	2	149
		M	2	4	1	2	34	49	0	3	0	6	1	2	7	16	1	2	0	8	2	9	2	5	8	0	4	3	8	179

Annex 2: Mortality (Excluding Neonates) According to Global Burden of Diseases Study Classification System for Diseases and Injuries by Health District and Sex, 2021 Cont..

Cause	ICD10Codes	Sex	Botlwa	Boblwa	Charlehill	Chobe	Francistown	Gaborone	Ghanzi	Goodhope	Jwaneng	Kanye	Kgatladi North	Kgatladi South	Kgatleng	Kweneng East	Kweneng West	Lobatse	Mabutsane	Mahalapye	Moshupa	Ngamland	North East	Okavango	Palapye	Selebi-Phikwe	Serowe	South East	Tlume	Grand Total	
<b>J. Genito Urinary Diseases</b>	N00-N64, N75-N98	F	5	4	0	0	42	35	1	2	0	10	1	1	6	8	0	2	0	10	0	12	0	4	11	2	4	9	5	174	
		M	5	5	0	3	58	51	5	5	5	2	19	4	0	9	24	1	5	1	10	4	10	1	5	13	4	9	3	8	264
1. Nephritis and nephrosis	N00-N19	F	4	4	0	0	37	29	0	2	0	9	1	1	4	7	0	2	0	8	0	10	0	4	9	2	3	8	4	148	
		M	5	3	0	2	49	43	2	3	2	11	3	0	7	17	0	3	0	8	2	4	0	3	11	2	3	3	5	191	
2. Benign prostatic hypertrophy	N40	M	0	1	0	0	1	3	2	1	0	4	1	0	0	6	1	0	1	0	1	4	0	1	1	1	5	0	3	37	
3. Other Genitourinary system diseases	N20-N39, N41-N64, N75-N98	F	1	0	0	0	5	6	1	0	0	1	0	0	2	1	0	0	0	2	0	2	0	0	2	0	1	1	1	26	
		M	0	1	0	1	8	5	1	1	0	4	0	0	2	1	0	2	0	2	1	2	1	1	1	1	1	0	0	36	
<b>K. Skin Diseases</b>	L00-L98	F	2	3	1	0	7	5	1	0	0	2	2	0	8	1	2	3	1	6	0	4	1	4	2	0	2	1	5	63	
		M	1	1	0	1	6	5	0	0	0	0	3	1	0	0	1	0	0	1	1	0	0	0	2	0	0	1	0	1	25
1. Osteoarthritis	M15-M19	F	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	1	0	1	0	0	32	
2. Gout	M10	F	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
		M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
3. Other musculoskeletal disorders	M00-M02, M08, M11-M13, M20-M43, M50-M53, M54.2, M55-M99	F	0	0	0	0	3	9	0	0	0	0	1	0	1	2	0	0	0	0	0	1	1	3	1	0	1	1	0	24	
		M	0	1	0	0	5	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	2	13	
M. Congenital Anomalies	Q00-Q99	F	0	0	0	1	1	9	2	1	0	0	1	0	0	1	0	0	0	1	1	2	1	0	0	0	1	0	1	23	
		M	0	0	0	0	6	5	0	0	0	2	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	2	18	
1. Anencephaly	Q00	F	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
2. Down Syndrome	Q90	M	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
<b>3. Congenital Heart Anomalies</b>	Q20-Q28	F	0	0	0	1	0	2	1	1	0	0	1	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	9	
		M	0	0	0	0	3	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	6	
4. Other congenital anomalies	Q01-Q04, Q06-Q18, Q30-Q34, Q38, Q39.2-Q39.9, Q40-Q41, Q43-Q56, Q61-Q78, Q79.0, Q79.1, Q79.6, Q79.8, Q79.9, Q80-Q89, Q91-Q99	F	0	0	0	0	0	7	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	1	13
		M	0	0	0	0	3	3	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	10
<b>N. Oral Conditions</b>	K00-K14	F	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	
		M	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
1. Periodontal Disease	K05	F	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
2. Other oral diseases	K00, K01, K03, K04, K06-K14	F	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	
		M	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
<b>O. Sudden Infant Death Syndrome</b>	R95	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	1	0	2	

Annex 2: Mortality (Excluding Neonates) According to Global Burden of Diseases Study Classification System for Diseases and Injuries by Health District and Sex,2021 Cont..

Cause	ICD10Codes	Sex	Botlwa	Boteti	Charleshill	Chobe	Francistown	Gaborone	Ghanzi	Goodhope	Jwaneng	Kanye	Kgalagadi North	Kgalagadi South	Kgatleng	Kweneng East	Kweneng West	Lobatse	Mabutsane	Mahalapye	Moshupa	Ngamitland	North East	Okavango	Palapye	Selebi-Phikwe	Serowe	South East	Tlume	Grand Total	
III. Injuries	V01-V89,U12.9	F	16	19	2	2	29	47	10	3	3	18	1	4	24	33	4	2	2	31	1	17	11	9	11	1	22	6	23	351	
		M	35	28	6	5	71	137	16	7	4	4	40	5	10	40	96	14	7	1	69	5	49	15	34	25	3	50	23	50	845
A. Unintentional Injuries	V01-X59, Y40-Y86, Y88, Y89 (minus X41-X42, X44-X45), U12.9	F	6	9	1	2	19	33	9	0	1	11	1	3	16	20	1	1	0	20	1	11	3	6	5	1	11	3	12	206	
		M	18	14	3	3	45	94	10	5	3	3	27	3	7	24	48	6	2	0	39	3	19	4	9	8	1	20	13	18	446
1. Road Traffic Accidents	V01-V04, V06 (1-.9), V09 (2-.3), V10- V14 (3-.9), V15-V19 (4-.9), V20-V28 (3-.9), V29-V79 (4-.9), V80 (3-.5), V81.1, V82 (1, .8-.9), V83-V86 (0-.3), V87 (0-.9), V89 (2-.3, .9), V99, Y85.0	F	1	6	1	2	5	16	4	0	1	8	0	2	13	12	0	1	0	12	0	5	1	2	2	1	2	2	2	5	104
		M	5	9	1	1	19	63	6	4	2	25	0	4	19	27	2	2	0	25	1	6	2	1	4	1	12	8	7	256	
2. Positionings	X40, X43, X46-X49	F	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
		M	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	1	0	0	6	
3. Falls	W00-W19	F	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3
		M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
4. Fires	X00-X09	F	0	0	0	5	4	0	0	0	0	0	0	0	1	0	0	0	0	3	0	1	0	2	0	0	0	3	0	2	21
		M	1	0	0	10	2	0	10	2	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	18	
5. Drownings	W65-W74	F	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	5
		M	1	0	1	0	0	0	0	2	1	3	2	2	1	3	2	1	0	0	1	2	3	1	1	1	1	0	1	0	27
6. Other unintentional injuries	Rest of V, W39, W44, W53-W64, W77-W99, X10-X32, X50-X59, Y40-Y84, Y85.9, Y86, Y88-Y89, U12.9	F	2	3	0	0	6	12	5	0	0	2	1	1	2	8	1	0	0	3	1	3	2	2	2	3	0	6	1	5	69
		M	9	5	1	2	16	29	2	1	0	2	1	1	1	0	18	3	0	0	12	0	10	1	7	2	0	4	5	7	138
B. Intentional Injuries	X60-Y09, Y35-Y36, Y87.0, Y87.1	F	7	5	1	0	7	13	1	2	2	7	0	1	7	11	3	1	2	7	0	4	5	1	6	0	6	3	9	111	
		M	10	13	3	2	16	29	5	2	0	8	1	3	15	44	7	4	1	25	2	23	8	23	14	1	23	8	25	315	
1. Self-inflicted injuries	X60-X84, Y87.0	F	3	4	0	0	6	8	0	1	2	5	0	0	3	5	0	1	1	3	0	3	3	1	5	0	3	2	6	65	
		M	9	8	3	2	10	19	5	2	0	7	0	3	11	34	6	2	0	14	2	18	8	23	10	1	16	8	21	242	
2. Violence	X85-Y09, Y87	F	4	1	1	0	1	5	1	1	0	2	0	1	4	6	3	0	1	4	0	1	2	0	1	0	3	1	3	46	
		M	1	5	0	0	6	7	0	0	0	1	1	0	4	10	1	2	1	11	0	5	0	0	4	0	7	0	4	70	
3. other intentional injuries	Y36	M	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
		F	3	5	0	0	3	1	0	1	0	0	0	0	1	2	0	0	0	4	0	2	3	2	0	0	5	0	2	34	
C. Ill Defined Injuries and Accidents	Y10-Y34, Y87.2	M	7	1	0	0	10	14	1	0	1	5	1	0	1	4	1	1	1	0	5	0	7	3	2	3	1	7	2	7	84
		F	95	57	7	23	85	208	44	61	6	290	14	35	135	344	63	40	1	189	35	105	85	86	35	16	177	12	152	2,400	
IV. Ill defined diseases	R00-R94, R96-R99	M	69	64	3	17	62	189	43	38	8	270	10	31	141	349	55	28	4	180	27	100	57	44	29	16	182	23	135	2,174	
		F	231	209	28	65	766	1,683	172	144	97	528	64	98	440	880	106	143	27	490	58	357	174	191	196	102	503	209	425	8,386	
Grand Total		M	186	248	33	49	781	1,913	178	119	75	543	82	106	432	920	108	135	27	489	58	409	144	187	181	91	516	221	367	8,598	

**Annex 3: Mortality (Excluding Neonates) According to Global Burden of Diseases Study Classification System for Diseases and Injuries by Age Group and Sex, 2021**

Condition	ICD CODE	Sex	<1	01-4	05 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65+	N/S	Total
1. Communicable, maternal, perinatal and nutritional conditions	A00-B99, D50-D53, D64.9, E00-E02, E40-E46, E50-E64, G00-G04, G14, H65-H66, J00-J22, N70-N73, O00-O99, P00-P96, U04, U071, U072, U099, U109	F	36	54	19	46	280	456	518	499	1,040	2	2,950
		M	41	46	19	37	175	492	671	582	922	5	2,990
A. Infectious and Parasitic Diseases	A00-B99, G00-G04, G14, N70-N73, P37.3, P37.4	F	18	34	9	17	72	158	96	81	151	1	637
		M	19	25	8	25	84	144	142	111	160	1	719
1. Tuberculosis	A15-A19, B90	F	0	2	1	4	7	20	9	16	20	0	79
		M	0	2	0	6	14	29	20	30	67	1	169
2. STDs Excluding HIV	A50-A64, N70-N73	F	0	0	0	1	0	1	0	0	0	0	2
		M	0	0	0	0	0	0	0	0	0	0	0
3. HIV/AIDS	B20-B24	F	2	1	1	10	52	117	77	47	50	1	358
		M	2	3	2	13	53	97	107	68	46	0	391
4. Diarrhoeal Diseases	A00, A01, A03, A04, A06-A09	F	13	26	4	0	2	4	3	5	45	0	102
		M	12	19	1	1	3	6	4	5	19	0	70
5. Childhood Cluster Diseases	A33-A37, A80, B05, B91, G14	F	0	0	0	0	0	0	0	0	0	0	0
		M	0	0	0	0	0	0	1	0	0	0	1
6. Meningitis	A39, G00, G03	F	0	2	1	2	2	2	3	3	0	0	15
		M	0	0	2	2	5	0	2	2	3	0	16
7. Hepatitis B	B16-B19 (minus B17.1, B17.2, B18.2, B18.8)	F	0	0	0	0	0	0	0	1	0	0	1
		M	0	0	0	1	0	0	0	0	1	0	2
8. Hepatitis C	B17.1, B18.2	F	0	0	0	0	0	0	0	0	0	0	0
		M	0	0	0	0	0	0	0	0	1	0	1
9. Malaria	B50-B54, P37.3, P37.4	F	0	0	1	0	0	0	0	1	2	0	4
		M	0	0	1	1	2	1	0	0	5	0	10
10. Other infectious diseases	A02, A05, A20-A28, A31, A32, A38, A40-A49, A65-A70, A74-A79, A81, A82, A83.1-A83.9, A84-A89, A92-A99, B00-B04, B06-B15, B17.2, B18.8, B25-B49, B58-B60, B64, B66-B72, B74.3-B74.9, B75, B82-B89, B92-B99, G04	F	3	3	1	0	9	14	4	8	34	0	76
		M	5	1	2	1	7	11	8	6	18	0	59

**Annex 3: Mortality (Excluding Neonates) According to Global Burden of Diseases Study Classification System for Diseases and Injuries by Age Group and Sex, 2021 Cont**

Condition	ICD CODE	Sex	<1	01-4	05 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65+	N/S	Total	
<b>B. Respiratory Infections</b>	H65-H66, J00-J22, P23, U04, U07.1, U07.2, U09.9, U10.9	F	12	11	5	15	180	267	407	404	831	0	2,132	
		M	8	12	8	12	85	343	522	459	718	1	2,168	
1. Lower respiratory infections	J09-J22, P23, U04	F	8	7	3	2	12	14	14	20	68	0	148	
2. COVID-19	U07.1, U07.2, U09.9, U10.9	M	3	7	2	2	4	10	24	23	86	0	161	
		F	4	3	2	13	167	252	393	384	762	0	1,980	
		M	5	4	6	10	81	333	495	434	632	1	2,001	
3. Upper respiratory infections	J00-J06	F	0	1	0	0	1	1	0	0	1	0	4	
<b>C. Maternal Conditions</b>	O00-O99	M	0	1	0	0	0	0	3	2	0	0	6	
		F	0	0	0	11	19	12	0	0	0	0	0	42
		M	-	-	-	-	-	-	-	-	-	-	-	
1. Maternal haemorrhage	O44-O46, O67, O72	F	0	0	0	0	6	4	0	0	0	0	10	
		M	-	-	-	-	-	-	-	-	-	-	-	
2. Hypertensive Disorders	O10-O16	F	0	0	0	5	5	4	0	0	0	0	14	
		M	0	0	0	0	0	0	0	0	0	0	0	
3. Abortion	O00-O07	F	0	0	0	4	2	2	0	0	0	0	8	
		M	-	-	-	-	-	-	-	-	-	-	-	
4. Other Maternal Conditions	O20-O43, O47-O63, O68-O71, O73-O75, O87-O99	F	0	0	0	2	6	2	0	0	0	0	10	
		M	-	-	-	-	-	-	-	-	-	-	-	
<b>D. Perinatal Conditions</b>	P00-P96 (minus P23, P37.3, P37.4)	F	5	0	0	0	0	0	0	0	0	0	1	6
		M	9	0	0	0	0	0	0	0	0	0	3	12
1. Low Birth Weight	P05, P07	F	3	0	0	0	0	0	0	0	0	0	3	
		M	5	0	0	0	0	0	0	0	0	0	5	
2. Birth Asphyxia and birth trauma	P03, P10-P15, P20-P22, P24-P29	F	1	0	0	0	0	0	0	0	0	0	1	2
		M	3	0	0	0	0	0	0	0	0	0	2	5
3. Other perinatal conditions	P00-P02, P04, P08, P35-P96	F	1	0	0	0	0	0	0	0	0	0	1	
		M	1	0	0	0	0	0	0	0	0	0	1	2

Annex 3: Mortality (Excluding Neonates) According to Global Burden of Diseases Study Classification System for Diseases and Injuries by Age Group and Sex, 2021 Cont

Condition	ICD CODE	Sex	<1	01-4	05-14	15-24	25-34	35-44	45-54	55-64	65+	N/S	Total
E.Nutritional Deficiencies	D50-D53, D64.9, E00-E02, E40-E46, E50-E64	F	1	9	5	3	9	19	15	14	58	0	133
		M	5	9	3	0	6	5	7	12	44	0	91
1.Protein-energy malnutrition	E40-E46	F	1	7	0	1	0	0	2	3	5	0	19
		M	4	9	2	0	0	0	1	0	9	0	25
2.Iron-Deficiency Anaemia	D50, D64.9	F	0	2	5	2	9	19	13	10	52	0	112
		M	1	0	1	0	6	5	5	12	35	0	65
3.Other Nutritional Disorders	D51-D53, E51-E64	F	0	0	0	0	0	0	0	1	1	0	2
		M	0	0	0	0	0	0	1	0	0	0	1
II.Non-communicable diseases	C00-C97, D00-D48, D55-D64 (minus D64.9) D65-D89, E03-E07, E10-E34, E65-E88, F01-F99, G06-G98 (minus G14), H00-H61, H68-H93, I00-I99, J30-J98, K00-K92, L00-L98, M00-M99, N00-N64, N75-N98, Q00-Q99, R95, U07.0	F	28	49	23	56	159	294	315	376	1,382	3	2,685
		M	29	51	30	53	117	237	330	496	1,244	2	2,589
A.Malignant Neoplasms	C00-C97	F	0	5	6	9	34	124	139	117	227	2	663
		M	1	5	7	13	12	47	87	157	289	1	619
1.Mouth and oropharynx cancers	C00-C14	F	0	0	0	0	1	4	1	2	3	0	11
		M	0	0	0	0	1	1	7	8	11	0	28
2.Oesophagus Cancer	C15	F	0	0	0	0	0	1	6	11	20	0	38
		M	0	0	0	0	0	1	16	24	39	0	80
3.Stomach cancer	C16	F	0	0	0	0	0	2	1	0	3	0	6
		M	0	0	0	0	0	4	2	5	5	0	16
4.Colon and rectum cancer	C18-C21	F	0	0	0	0	1	4	7	6	13	0	31
		M	0	0	0	0	0	5	5	14	15	0	39
5.Liver cancer	C22	F	0	1	0	0	3	5	11	4	9	0	33
		M	0	0	0	1	0	7	10	13	25	0	56
6.Pancreas cancer	C25	F	0	0	0	0	2	0	2	1	11	0	16
		M	0	0	0	0	0	1	3	6	7	0	17



**Annex 3: Mortality (Excluding Neonates) According to Global Burden of Diseases Study Classification System for Diseases and Injuries by Age Group and Sex, 2021 Cont**

Condition	ICD CODE	Sex	<1	01-4	05 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65+	N/S	Total
7.Trachea, bronchus, lung cancers	C33-C34	F	0	0	0	1	0	5	6	10	9	0	31
		M	1	0	0	0	0	5	17	30	38	1	92
8.Melanoma and other skin cancers	C43-C44	F	0	0	0	0	1	1	1	4	6	0	13
		M	0	0	0	0	0	2	0	3	8	0	13
9.Breast cancer	C50	F	0	0	0	0	5	22	29	19	35	0	110
		M	0	0	0	0	0	2	1	0	3	0	6
10.Cervix uteri cancer	C53	F	0	0	0	1	4	48	51	25	37	1	167
		M	-	-	-	-	-	-	-	-	-	-	-
11.Corpus uteri cancer	C54-C55	F	0	0	0	0	0	0	2	6	20	0	28
		M	-	-	-	-	-	-	-	-	-	-	-
12.Ovary Cancer	C56	F	0	0	0	0	1	2	4	6	12	0	25
		M	-	-	-	-	-	-	-	-	-	-	-
13.Prostate Cancer	C61	F	-	-	-	-	-	-	-	-	-	-	-
		M	0	0	0	0	0	0	4	14	85	0	103
14.Bladder cancer	C76	F	0	0	0	0	0	1	0	0	3	0	4
		M	0	0	0	0	0	0	0	0	10	0	10
15.Lymphomas, multiple myeloma	C81-C90, C96	F	0	0	0	2	2	5	4	4	3	0	20
		M	0	0	0	5	2	2	3	5	9	0	26
16.Leukemia	C91-C95	F	0	1	0	1	4	1	1	2	3	0	13
		M	0	1	4	0	1	0	1	1	1	0	9
17.Other Malignant Neoplasms	C17, C23, C24, C26-C32, C37-C41, C45-C49, C51, C52, C57-C60, C62-C66, C68-C80, C97	F	0	3	6	4	10	23	13	17	40	1	117
		M	0	4	3	7	8	17	18	34	33	0	124

Annex 3: Mortality (Excluding Neonates) According to Global Burden of Diseases Study Classification System for Diseases and Injuries by Age Group and Sex, 2021 Cont

Condition	ICD CODE	Sex	<1	01-4	05 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65+	N/S	Total
B.Other Neoplasms	D00-D48	F	0	2	0	0	0	0	1	1	2	0	6
		M	0	0	0	1	2	0	0	2	1	0	6
C.Diabetes Mellitus	E10-E14	F	0	0	3	2	5	16	32	54	185	0	297
		M	0	0	1	3	9	20	26	49	87	0	195
D.Endocrine Disorders	D55-D64 (minus D64.9), D65-D89, E03-E07, E15-E34, E65-E88	F	3	11	2	5	19	19	16	20	91	0	186
		M	3	9	4	2	2	24	17	25	59	0	145
E.Neuro Pyschiatric Conditions	F01 -F99, G06-G98 (minus G14)	F	3	2	6	8	13	16	6	11	29	0	94
		M	1	15	6	10	15	16	17	15	37	0	132
1.Unipolar Depressive Disorders	F32-F33	F	0	0	0	0	1	1	0	0	1	0	3
		M	0	0	0	0	0	0	0	0	0	0	0
2.Schizophrenia	F20-F29	F	0	0	0	0	1	0	0	1	2	0	4
		M	0	0	0	0	0	2	0	1	4	0	7
3.Epilepsy	G40-G41	F	0	0	2	0	3	3	1	0	3	0	12
		M	0	2	2	3	5	7	3	5	4	0	31
4.Alcohol use disorders	F10	F	0	0	0	0	1	0	1	2	0	0	4
		M	0	0	0	0	4	2	1	0	0	0	7
5.Alzheimer and other dementias	F01, F03, G30-G31	F	1	0	0	0	0	0	0	0	14	0	15
6.Parkinson Disease	G20-G21	M	0	0	0	0	0	0	0	0	16	0	16
		F	0	0	0	0	0	0	0	0	3	0	3
7.Multiple Sclerosis	G35	M	0	0	0	0	0	0	0	1	6	0	7
		F	0	0	0	1	0	0	0	0	0	0	1
8 Drug use disorders	F11-F16, F18-F19	M	0	0	0	0	0	0	0	0	0	0	0
		F	0	0	0	0	1	0	0	0	0	0	1
9.Migraine	G43	M	0	0	0	0	0	0	1	0	0	0	1
		F	0	0	0	0	0	0	0	0	0	0	0

Annex 3: Mortality (Excluding Neonates) According to Global Burden of Diseases Study Classification System for Diseases and Injuries by Age Group and Sex, 2021 Cont

Condition	ICD CODE	Sex	<1	01-4	05-14	15-24	25-34	35-44	45-54	55-64	65+	N/S	Total
10.Mental Retardation	F70-F79	F	0	0	0	1	0	0	0	0	0	0	1
		M	0	0	0	0	0	0	0	0	0	0	0
11.Other neuropsychiatric disorders	F04-F09, F17, F34-F39, F401-F409, F411-F419, F43 (minus F43.1), F44-F50, F52-F69, F80-F99, G06-G12, G23-G25, G36, G37, G44-G98, U07.0	F	2	2	4	6	11	4	8	6	0	0	49
		M	1	13	4	7	5	13	8	7	0	0	64
<b>F.Sense Organ Diseases</b>	<b>H00-H61, H68-H93</b>	<b>F</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>
		<b>M</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>3</b>
1.Glaucoma	H40	F	0	0	0	0	0	0	0	0	1	0	1
		M	0	0	0	0	0	0	0	0	1	0	1
2.Other sense organ disorders	H00-H21, H27-H35, H43-H61 (minus H524), H68-H83, H92-H93	F	0	0	0	0	0	0	0	0	0	0	0
		M	0	0	0	0	0	0	0	1	1	0	2
<b>G.Cardio Vascular Diseases</b>	<b>I00-I99</b>	<b>F</b>	<b>6</b>	<b>2</b>	<b>2</b>	<b>14</b>	<b>38</b>	<b>57</b>	<b>58</b>	<b>97</b>	<b>539</b>	<b>0</b>	<b>813</b>
		<b>M</b>	<b>5</b>	<b>3</b>	<b>6</b>	<b>8</b>	<b>26</b>	<b>59</b>	<b>75</b>	<b>100</b>	<b>385</b>	<b>0</b>	<b>667</b>
1.Rheumatic Heart Disease	I01-I09	F	0	0	0	0	1	0	1	1	0	0	3
		M	0	0	0	0	0	0	1	0	0	0	1
2.Hypertensive Heart Disease	I11-I15	F	1	0	0	0	2	3	2	10	55	0	73
		M	0	0	0	0	1	3	6	8	52	0	70
3.Ischaemic Heart Disease	I20-I25	F	0	0	0	1	1	1	4	3	19	0	29
		M	0	0	0	1	1	1	4	3	19	0	29
4.Cerebrovascular Disease	I60-I69	M	0	0	0	1	2	5	6	7	15	0	36
		F	1	1	0	2	4	16	18	26	154	0	222
5.Inflammatory Heart Disease	I30-I33, I38, I40, I42	M	1	0	3	1	7	19	21	18	97	0	167
		F	0	0	2	4	4	5	2	3	3	0	23
6.Other Cardiovascular Diseases	I00, I10, I26-I28, I34-I37, I44-I51, I70-I99	M	1	0	0	3	5	3	6	3	7	0	28
		F	4	1	0	7	26	32	31	54	308	0	463
		M	3	3	3	3	11	29	35	64	214	0	365

**Annex 3: Mortality (Excluding Neonates) According to Global Burden of Diseases Study Classification System for Diseases and Injuries by Age Group and Sex, 2021 Cont**

Condition	ICD CODE	Sex	<1	01-4	05 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65+	N/S	Total
<b>H. Respiratory Diseases</b>	<b>J30-J98</b>	<b>F</b>	<b>5</b>	<b>9</b>	<b>0</b>	<b>1</b>	<b>11</b>	<b>20</b>	<b>16</b>	<b>23</b>	<b>67</b>	<b>0</b>	<b>152</b>
		<b>M</b>	<b>4</b>	<b>10</b>	<b>2</b>	<b>6</b>	<b>16</b>	<b>22</b>	<b>28</b>	<b>60</b>	<b>126</b>	<b>1</b>	<b>275</b>
1.Chronic Obstructive Pulmonary Disease	J40-J44	F	0	0	0	0	0	0	1	2	0	0	3
		M	0	0	0	0	1	2	3	17	35	0	58
2.Asthma	J45-J46	F	0	0	0	1	3	2	5	3	24	0	38
		M	0	0	0	1	3	4	5	4	24	1	42
3.Other respiratory diseases	J30-J39, J47-J98	F	5	9	0	0	8	18	10	18	43	0	111
		M	4	10	2	5	12	16	20	39	67	0	175
<b>I.Digestive Diseases</b>	<b>K20-K92</b>	<b>F</b>	<b>3</b>	<b>6</b>	<b>3</b>	<b>4</b>	<b>18</b>	<b>21</b>	<b>22</b>	<b>22</b>	<b>76</b>	<b>0</b>	<b>175</b>
		<b>M</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>3</b>	<b>22</b>	<b>27</b>	<b>46</b>	<b>37</b>	<b>74</b>	<b>0</b>	<b>220</b>
1.Peptic Ulcer Disease	K25-K27	F	0	0	0	0	0	0	2	2	6	0	10
		M	0	0	0	0	2	0	1	5	4	0	12
2.Cirrhosis of the liver	K70, K74	F	0	0	0	0	3	1	3	2	4	0	13
		M	0	0	0	0	1	2	9	7	8	0	27
3.Appendicitis	K35-K37	F	0	0	1	0	1	0	0	0	1	0	3
		M	0	0	1	0	1	0	0	0	0	0	2
4.Other digestive diseases	K20-K22, K28-K31, K38, K40-K66, K71-K73, K75-K92	F	3	6	2	4	14	20	17	18	65	0	149
		M	3	4	3	3	18	25	36	25	62	0	179
<b>J. Genito Urinary Diseases</b>	<b>N00-N64, N75-N98</b>	<b>F</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>5</b>	<b>11</b>	<b>16</b>	<b>17</b>	<b>23</b>	<b>97</b>	<b>0</b>	<b>174</b>
		<b>M</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>10</b>	<b>15</b>	<b>28</b>	<b>43</b>	<b>162</b>	<b>0</b>	<b>264</b>
1.Nephritis and nephrosis	N00-N19	F	1	3	1	3	10	10	15	21	84	0	148
		M	2	0	0	4	10	14	25	31	105	0	191
2.Benign prostatic hypertrophy	N40	F	-	-	-	-	-	-	-	-	-	-	-
		M	0	0	0	0	0	0	0	4	33	0	37
3.Other Genitourinary system diseases	N20-N39, N41-N64, N75-N98	F	0	0	0	2	1	6	2	2	13	0	26
		M	0	0	0	0	1	3	8	24	0	0	36

Annex 3: Mortality (Excluding Neonates) According to Global Burden of Diseases Study Classification System for Diseases and Injuries by Age Group and Sex, 2021 Cont

Condition	ICD CODE	Sex	<1	01-4	05 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65+	N/S	Total	
K.Skin Diseases	L00-L98	F	0	0	0	2	4	1	4	5	47	0	63	
		M	0	0	0	1	2	2	2	5	13	0	25	
L.Musculo Skeletal Diseases	M00-M99	F	0	0	0	4	3	4	3	2	16	0	32	
		M	1	0	0	2	2	1	1	2	6	0	15	
1.Osteoarthritis	M15-M19	F	0	0	0	0	0	0	0	0	5	0	5	
		M	0	0	0	0	0	0	0	0	1	0	1	
2.Gout	M10	F	0	0	0	0	0	0	0	1	2	0	3	
		M	0	0	0	0	0	0	0	0	1	0	1	
3.Other musculoskeletal disorders	M00-M02, M08, M11-M13, M20-M43, M50-M53, M54.2, M55-M99	F	0	0	0	4	3	4	3	1	9	0	24	
		M	1	0	0	2	2	1	1	2	4	0	13	
M.Congenital Anomalies	Q00-Q99	F	4	9	0	2	2	0	1	1	3	1	23	
		M	8	4	0	1	0	1	3	0	1	0	18	
1.Anencephaly	Q00	F	1	0	0	0	0	0	0	0	0	0	1	
2.Down Syndrome	Q90	M	0	0	0	0	0	0	0	0	0	0	0	
		F	0	0	0	0	0	0	0	0	0	0	0	
3.Congenital Heart Anomalies	Q20-Q28	M	1	0	0	0	0	0	1	0	0	0	2	
		F	1	4	0	1	2	0	1	0	0	0	9	
4.Other congenital anomalies	Q01-Q04, Q06-Q18, Q30-Q34, Q38, Q39.2-Q39.9, Q40-Q41, Q43-Q56, Q61-Q78, Q79.0, Q79.1, Q79.6, Q79.8, Q79.9, Q80-Q89, Q91-Q99	M	2	2	0	0	0	1	1	0	0	0	6	
		F	2	5	0	1	0	0	0	1	3	1	13	
N.Oral Conditions	K00-K14	M	5	2	0	1	0	0	1	0	1	0	10	
		F	0	0	0	0	1	0	0	0	0	2	0	3
1.Periodontal Disease	K05	M	0	0	0	0	0	1	0	0	2	0	3	
		F	0	0	0	0	0	0	0	0	0	1	0	1
2.Other oral diseases	K00, K01, K03, K04, K06-K14	M	0	0	0	0	0	0	0	0	0	0	0	
		F	0	0	0	0	1	0	0	0	0	1	0	2
O.Sudden Infant Death Syndrome	R95	M	0	0	0	0	0	1	0	0	2	0	3	
		F	3	0	0	0	0	0	0	0	0	0	0	3
		M	1	1	0	0	0	0	0	0	0	0	0	2

Annex 3: Mortality (Excluding Neonates) According to Global Burden of Diseases Study Classification System for Diseases and Injuries by Age Group and Sex, 2021 Cont

Condition	ICD CODE	Sex	<1	01-4	05-14	15-24	25-34	35-44	45-54	55-64	65+	N/S	Total
III. Injuries	V01-Y89, U12.9	F	6	32	18	52	104	54	25	19	41	0	351
		M	0	32	38	119	292	179	86	51	48	0	845
A. Unintentional Injuries	V01-X59, Y40-Y86, Y88, Y89, U12.9	F	4	27	15	15	50	32	15	15	33	0	206
		M	0	31	30	46	137	88	46	32	36	0	446
1. Road Traffic Accidents	V01-V04, V06 (1-9), V09 (2-3), V10-V14 (3-9), V15-V19 (4-9), V20-V28 (3-9), V29-V79 (4-9), Y80 (3-5), Y81.1, Y82 (1,8-9), Y83-Y86 (0-3), Y87 (0-9), Y89 (2-3,9), V99, Y85.0	F	1	6	10	12	34	18	8	9	6	0	104
		M	0	12	9	34	88	54	32	16	11	0	256
2. Poisonings	X40-X49	F	0	2	0	0	0	0	0	0	2	0	4
		M	0	2	0	0	1	2	0	0	1	0	6
3. Falls	W00-W19	F	0	0	0	0	0	0	0	0	3	0	3
		M	0	0	0	0	0	0	0	0	1	0	1
4. Fires	X00-X09	F	0	9	1	0	0	2	1	2	6	0	21
		M	0	4	1	0	2	2	5	3	1	0	18
5. Drownings	W65-W74	F	0	3	2	0	0	0	0	0	0	0	5
		M	0	3	12	1	5	3	1	0	2	0	27
6. Other unintentional injuries	Rest of V, W20-W64, W75-W99, X10-X39, X50-X59, Y40-Y84, Y859, Y86, Y88, Y89, U12.9	F	3	7	2	3	16	12	6	4	16	0	69
		M	0	10	8	11	41	27	8	13	20	0	138
B. Intentional Injuries	X60-Y09, Y35-Y36, Y870, Y871	F	2	1	2	32	42	17	8	1	6	0	111
		M	0	0	6	63	126	70	25	16	9	0	315
1. Self-inflicted injuries	X60-X84, Y87.0	F	2	0	2	20	21	11	4	1	4	0	65
		M	0	0	5	49	88	57	21	15	7	0	242
2. Violence	X85-Y09, Y87.1	F	0	1	0	12	21	6	4	0	2	0	46
		M	0	0	1	14	35	13	4	1	2	0	70
3. Other intentional injuries	Y35	F	0	0	0	0	0	0	0	0	0	0	0
		M	0	0	0	0	3	0	0	0	0	0	3

Annex 3: Mortality (Excluding Neonates) According to Global Burden of Diseases Study Classification System for Diseases and Injuries by Age Group and Sex, 2021 Cont

Condition	ICD CODE	Sex	<1	01-4	05-14	15-24	25-34	35-44	45-54	55-64	65+	N/S	Total
C. Ill Defined Injuries and Accidents	Y10-Y34, Y87.2	F	0	4	1	5	12	5	2	3	2	0	34
		M	0	1	2	10	29	21	15	3	3	0	84
III Defined	R00-R94, R96-R99	F	49	56	20	37	84	166	187	239	1,560	2	2,400
		M	31	61	29	53	112	212	258	316	1,097	5	2,174
Grand Total	A00-Y99	F	119	191	80	191	627	970	1,045	1,133	4,023	7	8,386
		M	101	190	116	262	696	1,120	1,345	1,445	3,311	12	8,598

Annex 4: Mortality (Excluding Neonates) According to Global Burden of Diseases Study Classification System for Diseases and Injuries by District and Sex, 2021

Condition	ICD CODE	Sex	Botlwa	Boteti	Chobe	Francistown	Gaborone	Ghanzi	Goodhope	Lwaneng	Kanye	Kgalagadi North	Kgalagadi South	Kgatleng	Kweneng East	Lobatse	Mahalapye	Moshupa	Ngamilang	North East	Okavango	Palapye	Selibi-Phikwe	Serowe	South East	Tlume	Grand Total	
I.Communicable, maternal, perinatal and nutritional conditions	A00-B99, D50-D53, D64.9, E00-E02, E40-E46, E50-E64, G00-G04, G14, H65-H66, J00-J22, N70-N73, O00-O99, P00-P96, U04, U071, U072, U099, U109	F	0	3	0	65	61	4	2	1	4	1	2	3	5	5	13	1	21	0	2	1	2	6	3	2	207	
		M	1	7	3	102	62	4	4	0	4	4	6	1	6	14	4	15	0	16	0	2	4	1	16	5	5	282
A.Infectious and Parasitic Diseases	A00-B99, G00-G04, G14, N70-N73, P37.3, P37.4	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
		M	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	
1.Tuberculosis	A15-A19, B90	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
		M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2.Diarrhoeal Diseases	A00, A01, A03, A04, A06-A09	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3.Other Infectious diseases	A02, A05, A20-A28, A31, A32, A38, A40-A49, A65-A70, A74-A79, A81, A82, A83.1-A83.9, A84-A89, A92-A99, B00-B04, B06-B15, B17.2, B18.8, B25-B49, B58-B60, B64, B66-B72, B74.3-B74.9, B75, B82-B89, B92-B99, G04	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		M	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
B.Respiratory Infections	H65-H66, J00-J22, P23, U04, U07.1, U07.2, U09.9, U10.9	F	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	5
		M	0	0	0	4	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	7	
1.Lower respiratory infections	J09-J22, P23, U04	F	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	4	
		M	0	0	0	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
2.COVID-19	U07.1, U07.2, U09.9, U10.9	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
		M	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
C.Perinatal Conditions	P00-P96 (minus P23, P37.3, P37.4)	F	0	3	0	64	61	4	2	1	3	1	2	3	5	5	12	0	20	0	2	1	2	6	3	1	201	
		M	1	7	3	97	61	4	4	0	3	6	1	6	13	4	15	0	15	0	2	4	1	15	5	5	272	
1.Low Birth Weight	P05, P07	F	0	2	0	17	19	3	0	0	0	1	0	1	2	2	1	0	8	0	0	1	2	2	2	1	64	
		M	0	5	2	33	12	3	2	0	1	4	0	0	2	2	5	0	5	0	0	0	0	5	1	2	84	
2.Birth Asphyxia and birth trauma	P03, P10-P15, P20-P22, P24-P29	F	0	1	0	17	22	1	1	1	2	0	2	0	3	1	7	0	9	0	1	0	0	1	1	0	70	
3.Other perinatal conditions	P00-P02, P04, P08, P35-P36	M	1	1	0	35	22	1	2	0	0	1	0	5	8	1	8	0	6	0	1	4	0	4	3	2	105	
		F	0	0	0	30	20	0	1	0	1	0	0	2	0	2	4	0	3	0	1	0	0	3	0	0	67	
		M	0	1	1	29	27	0	0	0	2	1	1	1	3	1	2	0	4	0	1	0	1	6	1	1	83	
D.Nutritional Deficiencies	D50-D53, D64.9, E00-E02, E40-E46, E50-E64	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
1.Protein-energy malnutrition	E40-E46	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	



Annex 4: Mortality (Excluding Neonates) According to Global Burden of Diseases Study Classification System for Diseases and Injuries by District and Sex, 2021 Cont

Condition	ICD CODE	Sex	Botlwa	Boteti	Chobe	Francistown	Gaborone	Ghanzi	Goodhope	Jwaneng	Kanye	Kgagadi North	Kgagadi South	Kgatleng	Kweneng East	Lobatse	Maklapye	Moshupa	Ngamilang	North East	Okavango	Palapye	Selebi-Phikwe	Serowe	South East	Tlume	Grand Total	
II.Non-communicable diseases	C00-C97, D00-D48, D55-D64 (minus D64.9) D65-D89, E03-E07, E10-E34, E65-E88, F01-F99, G06-G98 (minus G14), H00-H61, H68-H93, I00-I99, J30-J98, K00-K92, L00-L98, M00-M99, N00-N64, N75-N98, Q00-Q99, R95, U07.0	F	0	0	0	4	12	0	0	0	0	1	0	1	2	0	0	0	0	0	0	0	0	1	0	0	0	21
		M	1	1	0	9	12	0	0	0	0	0	0	0	0	1	1	3	0	3	0	0	1	1	0	0	0	33
L.Musculo Skeletal Diseases	M00-M99	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
1.Other musculoskeletal disorders	M00-M02, M08, M11-M13, M20-M43, M50-M53, M54-2, M55-M99	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	
M.Congenital Anomalies	Q00-Q99	F	0	0	0	3	12	0	0	0	0	1	0	1	2	0	0	0	0	0	0	0	0	1	0	0	0	20
		M	0	1	0	9	12	0	0	0	0	0	0	0	0	1	1	3	0	1	0	0	1	0	0	0	30	
1.Abdominal Wall Defect	Q79.2-Q79.5	F	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
2.Anencephaly	Q00	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.Anorectal Atresia	Q42	F	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
4.Down Syndrome	Q90	M	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
5.Congenital Heart Anomalies	Q20-Q28	F	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	
6.Spina Bifida	Q05	M	0	0	0	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	6	
7.Other congenital anomalies	Q01-Q04, Q06-Q18, Q30-Q34, Q38, Q39.2-Q39.9, Q40-Q41, Q43-Q56, Q61-Q78, Q79.0, Q79.1, Q79.6, Q79.8, Q79.9, Q80-Q89, Q91-Q99	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.Spina Bifida	Q05	M	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
9.Other congenital anomalies	Q01-Q04, Q06-Q18, Q30-Q34, Q38, Q39.2-Q39.9, Q40-Q41, Q43-Q56, Q61-Q78, Q79.0, Q79.1, Q79.6, Q79.8, Q79.9, Q80-Q89, Q91-Q99	F	0	0	0	2	8	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	14	
10.Other congenital anomalies	Q01-Q04, Q06-Q18, Q30-Q34, Q38, Q39.2-Q39.9, Q40-Q41, Q43-Q56, Q61-Q78, Q79.0, Q79.1, Q79.6, Q79.8, Q79.9, Q80-Q89, Q91-Q99	M	0	1	0	7	6	0	0	0	0	0	0	0	0	0	1	2	0	1	0	0	1	0	0	0	19	
O.Sudden Infant Death Syndrome	R95	F	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
		M	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
III.Injuries	V01-Y89, U12.9	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
		M	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	
A.Unintentional Injuries	V01-X59, Y40-Y86, Y88, Y89, U12.9	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
		M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
1.Other unintentional injuries	Rest of V, W20-W64, W75-W99, X10-X39, X50-X59, Y40-Y84, Y859, Y86, Y88, Y89, U12.9	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
2.Other unintentional injuries	Rest of V, W20-W64, W75-W99, X10-X39, X50-X59, Y40-Y84, Y859, Y86, Y88, Y89, U12.9	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
C.Ill Defined Injuries and Accidents	Y10-Y34, Y87.2	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		M	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
V.Ill defined	R00-R94, R96-R99	F	2	2	0	4	2	0	1	0	1	0	1	0	1	0	1	0	0	2	0	1	0	0	0	0	3	21
		M	0	3	0	3	8	1	1	0	3	0	0	0	0	7	0	1	0	2	1	1	1	0	3	0	38	
Grand Total	A00-Y99	F	2	5	0	73	75	4	3	1	5	2	3	4	8	6	13	1	23	0	3	1	3	6	3	6	250	
		M	2	11	3	114	82	5	5	0	8	6	1	6	22	6	19	0	21	1	3	6	2	19	5	8	355	

Annex 5: Neonatal Mortality According to Global Burden of Diseases Study Classification System for Diseases and Injuries by Health District and Age, 2021

Diagnosis	ICD10 Codes	Sex	Age in Days												Total
			<1	01	02	03	04	05	06	07-27	28				
I. Communicable, maternal, perinatal and nutritional conditions	A00-B99, D50-D53, D64.9, E00-E02, E40-E46, E50-E64, G00-G04, G14, H65-H66, J00-J22, N70-N73, O00-O99, P00-P96, U04, U07.1, U07.2, U09.9, U10.9	Female	58	33	26	14	8	8	10	50	0	207			
		Male	54	62	41	25	18	11	8	61	2	282			
A. Infectious and Parasitic Diseases	A00-B99, G00-G04, G14, N70-N73, P37.3, P37.4	Female	0	0	0	0	0	0	0	1	0	1			
		Male	0	0	0	0	0	0	0	2	0	2			
1. Tuberculosis	A15-A19, B90	Female	0	0	0	0	0	0	0	1	0	1			
2. Diarrhoeal Diseases	A00, A01, A03, A04, A06-A09	Male	0	0	0	0	0	0	0	1	0	1			
3. Other Infectious and Parasitic Diseases	A02, A05, A20-A28, A31, A32, A38, A40-A49, A65-A70, A74-A79, A81, A82, A83, I-A83.9, A84-A89, A92-A99, B00-B04, B06-B15, B17.2, B18, B25-B49, B58-B60, B64, B66-B72, B74.3-B74.9, B75, B82-B89, B92-B99, G04	Male	0	0	0	0	0	0	0	1	0	1			
B. Respiratory Infections	H65-H66, J00-J22, P23, U04, U07.1, U07.2, U09.9, U10.9	Female	0	0	1	0	0	0	0	4	0	5			
		Male	0	1	4	1	0	0	0	1	0	7			
1. Lower respiratory infections	J00-J22, P23, U04	Female	0	0	1	0	0	0	0	3	0	4			
		Male	0	1	3	1	0	0	0	0	0	5			
2. COVID-19	U07.1, U07.2, U09.9, U10.9	Female	0	0	0	0	0	0	0	1	0	1			
		Male	0	0	1	0	0	0	0	1	0	2			
C. Perinatal Conditions	P00-P96 (minus P23, P37.3, P37.4)	Female	58	33	25	14	8	8	10	45	0	201			
		Male	54	61	37	24	18	11	8	57	2	272			
1. Low Birth Weight	P05, P07	Female	31	14	2	2	3	3	2	7	0	64			
		Male	24	27	13	6	4	1	0	9	0	84			
2. Birth Asphyxia and birth trauma	P03, P10-P15, P20-P22, P24-P29	Female	19	13	12	7	2	5	2	10	0	70			
		Male	26	23	19	10	3	5	4	15	0	105			
3. Other perinatal conditions	P00-P02, P04, P08, P35-P96	Female	8	6	11	5	3	0	6	28	0	67			
		Male	4	11	5	8	11	5	4	33	2	83			
E. Nutritional Deficiencies	E00-E02, E40-E46, E50, D50-D53, D64.9, E51-E64	Male	0	0	0	0	0	0	0	1	0	1			
		Female	0	0	0	0	0	0	0	0	0	0			
1. Protein-energy malnutrition	E40-E46	Male	0	0	0	0	0	0	0	1	0	1			
		Female	0	0	0	0	0	0	0	0	0	0			

Annex 5: Neonatal Mortality According to Global Burden of Diseases Study Classification System for Diseases and Injuries by Health District and Age, 2021 Cont

Diagnosis	ICD10 Codes	Sex	Age in Days														Total
			<1	01	02	03	04	05	06	07-27	28						
II. Non-communicable diseases	C00-C97, D00-D48, D55-D64 (minus D 64.9) D65-D89, E03-E07, E10-E34, E65-E88, F01-F99, G06-G98 (minus G14), H00-H61, H68-H93, I00-I99, J30-J98, K00-K92, L00-L98, M00-M99, N00-N64, N75-N98, Q00-Q99, R95, U07.0, X41, X42, X44, X45	Female	6	3	3	2	2	1	0	4	0	21					
		Male	12	3	3	1	0	2	1	10	1	33					
		Male	0	0	0	0	0	0	0	0	2	0	2				
L. Musculo Skeletal Diseases	M00-M02, M08, M11-M13, M20-M43, M50-M53, M54.2, M55-M99	Female	6	3	3	2	1	1	0	4	0	20					
		Male	12	3	2	1	0	2	1	8	1	30					
1. Abdominal Wall Effect	Q79.2-Q79.5	Female	0	2	0	1	0	0	0	0	0	3					
		Male	1	0	0	0	0	0	0	0	0	1					
2. Anencephaly	Q00	Female	1	0	0	0	0	0	0	0	0	1					
		Male	1	0	0	0	0	0	0	0	0	1					
3. Anorectal Atresia	Q42	Female	0	0	0	0	0	1	0	0	0	1					
		Male	0	0	0	0	0	0	0	2	0	2					
4. Down Syndrome	Q90	Female	0	0	2	0	0	0	0	0	0	2					
		Male	0	0	0	0	0	0	0	0	0	0					
5. Congenital Heart Anomalies	Q20-Q28	Female	0	1	1	1	0	0	1	2	0	6					
		Male	0	0	0	0	0	0	0	0	1	1					
6. Spina Bifida	Q05	Female	5	1	1	1	1	1	0	4	0	14					
		Male	11	2	1	0	0	1	0	4	0	19					
O. Sudden Infant Death Syndrome	R95	Female	0	0	0	0	1	0	0	0	0	1					
		Male	0	0	1	0	0	0	0	0	0	1					
III. Injuries	V01-V89, U12.9	Female	0	0	1	0	0	0	0	0	0	1					
		Male	0	1	0	0	0	0	0	1	0	2					
A. Unintentional Injuries	V01-X59, Y40-Y86, Y88, Y89 (minus X41-X42, X44-X45), U12.9	Female	0	0	1	0	0	0	0	0	0	1					
		Male	0	0	0	0	0	0	0	1	0	1					
1. Other unintentional injuries	Rest of V, W39, W44, W53-W64, W77-W99, X10-X32, X50-X59, Y40-Y84, Y859, Y86, Y88-Y89, U12.9	Female	0	0	1	0	0	0	0	0	0	1					
		Male	0	0	0	0	0	0	0	1	0	1					
C. Ill Defined Injuries and Accidents	Y10-Y34, Y87.2	Male	0	1	0	0	0	0	0	0	0	1					
V. Ill defined diseases	R00-R94, R96-R99	Female	4	1	2	1	0	0	1	12	0	21					
		Male	8	6	3	3	4	0	0	14	0	38					
Grand Total	A00-Y89	Female	68	37	32	17	10	9	11	66	0	250					
		Male	74	72	47	29	22	13	9	86	3	355					

## Annex 6: Metadata

### 6.1 Maternal Mortality Ratio

<b>Definition and concepts</b>											
<b>Definition</b>	Maternal mortality ratio (MMR) is defined as the number of maternal deaths during a given time period per 100,000 live births during the same time period. It depicts the risk of maternal death relative to the number of live births and essentially captures the risk of death in a single pregnancy (proxied by a single live birth).										
<b>Concepts</b>	Maternal death: The death of a woman while pregnant or within 42 days of termination of pregnancy, irrespective of the duration and site of the pregnancy, from any cause related to or aggravated by the pregnancy or its management (from direct or indirect obstetric death), but not from unintentional or incidental causes. A death occurring during pregnancy, childbirth and puerperium (also known as a pregnancy-related death): The death of a woman while pregnant or within 42 days of termination of pregnancy, irrespective of the cause of death.										
<b>Scope and coverage</b>	National and District										
<b>Data Sources and Frequency of Collection</b>	<table> <tr> <td>Botswana Multi-topic household survey</td> <td>After 5 Years</td> </tr> <tr> <td>Census</td> <td>After 10 years</td> </tr> <tr> <td>Botswana Demographic Survey</td> <td>After 5 Years</td> </tr> <tr> <td>Ministry Of Health</td> <td>Annually</td> </tr> <tr> <td>CRVS</td> <td>Annually</td> </tr> </table>	Botswana Multi-topic household survey	After 5 Years	Census	After 10 years	Botswana Demographic Survey	After 5 Years	Ministry Of Health	Annually	CRVS	Annually
Botswana Multi-topic household survey	After 5 Years										
Census	After 10 years										
Botswana Demographic Survey	After 5 Years										
Ministry Of Health	Annually										
CRVS	Annually										
<b>Accessibility of report</b>	<a href="https://www.statsbots.org.bw">https://www.statsbots.org.bw</a>										

### 6.2 Proportion of Deaths Attributed to Cardiovascular Disease, Cancer, Diabetes or Chronic Respiratory Disease

<b>Definition and concepts</b>											
<b>Definition</b>	Mortality rate attributed to cardiovascular disease, cancer, diabetes or chronic respiratory disease is defined as the proportion of deaths from cardiovascular diseases, cancer, diabetes or chronic respiratory diseases during a given time period divided by total number of reported deaths during the same time period.										
<b>Concepts</b>	Cardiovascular disease, cancer, diabetes or chronic respiratory diseases: ICD-10 underlying causes of death I00-I99, COO-C97, E10-E14 and J30-J98.										
<b>Scope and coverage</b>	National and District										
<b>Data Sources and Frequency of Collection</b>	<table> <tr> <td>Botswana Multi-topic household survey</td> <td>After 5 Years</td> </tr> <tr> <td>Census</td> <td>After 10 years</td> </tr> <tr> <td>Botswana Demographic Survey</td> <td>After 5 Years</td> </tr> <tr> <td>Ministry Of Health</td> <td>Annually</td> </tr> <tr> <td>CRVS</td> <td>Annually</td> </tr> </table>	Botswana Multi-topic household survey	After 5 Years	Census	After 10 years	Botswana Demographic Survey	After 5 Years	Ministry Of Health	Annually	CRVS	Annually
Botswana Multi-topic household survey	After 5 Years										
Census	After 10 years										
Botswana Demographic Survey	After 5 Years										
Ministry Of Health	Annually										
CRVS	Annually										
<b>Accessibility of data</b>	<a href="https://www.statsbots.org.bw">https://www.statsbots.org.bw</a>										

## Annex 6: Metadata Cont.

### 6.3 Suicide Mortality Rate

<b>Definition and concepts</b>	
<b>Definition</b>	The Suicide mortality rate is defined as the number of suicide deaths in a year, divided by the population, and multiplied by 100 000.
<b>Concepts</b>	Numerator: Number of deaths due to suicides (Absolute figure indicating the number of people who die as a result of suicide). Denominator: Population (number of people in Botswana)
<b>Scope and coverage</b>	National and District
<b>Data Sources and Frequency of Collection</b>	Botswana Multi-topic household survey      After 5 Years Census      After 10 years Botswana Demographic Survey      After 5 Years Ministry Of Health      Annually CRVS      Annually
<b>Accessibility of data</b>	<a href="https://www.statsbots.org.bw">https://www.statsbots.org.bw</a>

### 6.4 Death Rate Due to Road Traffic Injuries

<b>Definition and concepts</b>	
<b>Definition</b>	Death rate due to road traffic injuries is defined as the number of road traffic fatal injury deaths per 100,000 population.
<b>Concepts</b>	Numerator: Number of deaths due to road traffic crashes (Absolute figure indicating the number of people who die as a result of a road traffic crash). Denominator: Population (number of people in Botswana)
<b>Scope and coverage</b>	National and District
<b>Data Sources and Frequency of Collection</b>	Botswana Multi-topic household survey      After 5 Years Census      After 10 years Botswana Demographic Survey      After 5 Years Ministry Of Health      Annually CRVS      Annually
<b>Accessibility of data</b>	<a href="https://www.statsbots.org.bw">https://www.statsbots.org.bw</a>



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