



Republic of Botswana

# STATS BRIEF

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No 20/2010/17

December 2010

## **BOTSWANA- CAUSES OF MORTALITY 2008**

### **1.0 Introduction**

This Statistical Brief provides information on causes of mortality (deaths) by age for both sexes during the years 2007 and 2008. The information is availed to the public by CSO through Health Statistics Unit which is seconded to the ministry of Health.

### **1.1 Mortality of Infant, Children and All ages (excluding Neonatal deaths)**

A mortality trend between 2004 to 2008 is shown in figure 1.1 for infants, children and all ages. The overall inpatient mortality (excluding neonatal deaths) of all ages was 11,075 for the year 2007 and decreased to 7,410 in 2008, indicating a decrease of 33.1percent (table 1.3).

While the childhood mortality decreased by 20.7 percent between the two periods, infants mortality increased by 64.6 percent. The childhood mortality was 1,301 in 2007 to 1,032 in 2008 (table 1.2), revealing a 20.7 percent decrease on deaths of the under 5 over the period (table 1.2) infant mortality moved from 658 in 2007 to 1,858 in 2008 (table 1.1)

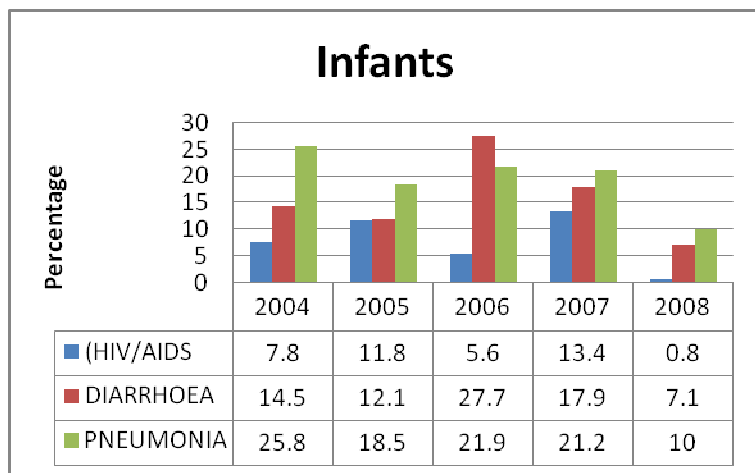
Pneumonia remained the major cause of deaths among both infants and children from 2007 to 2008. In 2007, 21.2 percent of infants died due to pneumonia compared to 13.4 percent and 17.9 percent whose deaths were due to HIV/AIDS and diarrhea respectively in the same year. In 2008, pneumonia caused 10.0 percent of infant's death compared to 7.1 percent and 0.8 percent which were caused by diarrhoea and HIV/AIDS respectively. Among the under

5, 19.3 percent of mortality was due to pneumonia, while diarrhoeah and HIV/AIDS accounted for 17.6 percent and 12.4 percent respectively in 2007.

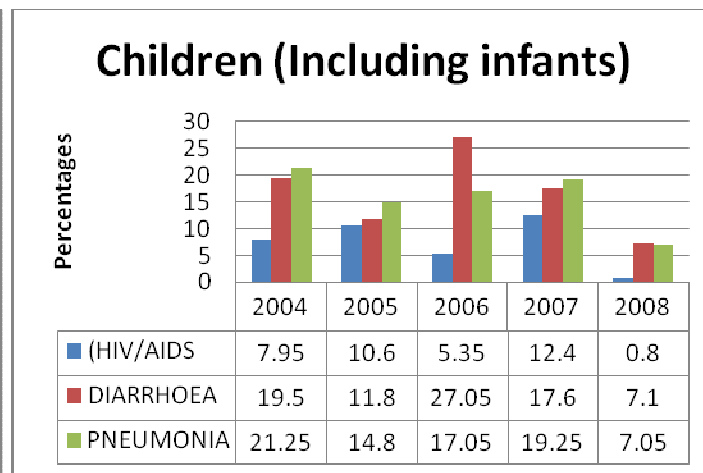
The trend further reveals that there was a drop in deaths caused by HIV/AIDS between 2007 and 2008. A total of 0.8 percent of infant's deaths was caused by HIV/AIDS in 2008, down from 13.4 percent HIV/AIDS deaths in 2007. In 2008, percentage deaths in diarrhea and pneumonia were at par at 7.1 percent each. Mortality for all ages indicates that pneumonia is still the major cause of death across board, for 2008, this is followed by HIV/AIDS at 7.8 percent and by diarrhoeah at 6.1 percent.

**Figure 1.1 Trends in inpatient Mortality among infants, children and All Ages Botswana: 2004-2008**

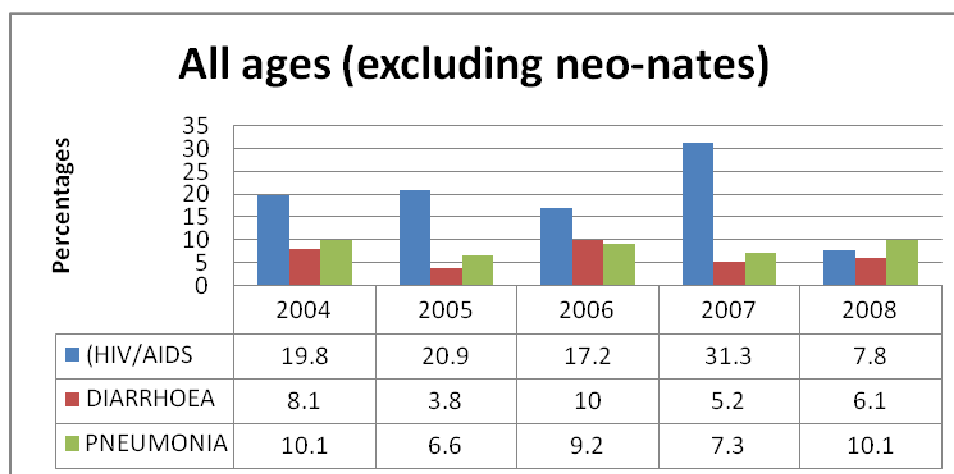
(a) Infants



(b)



(c)



## 1.2 Midnight Census

Midnight Census is counting of patients present in the ward at midnight .At this time of the day, a nurse in charge of each ward counts patients and fills out the ward census slip.

The changes in midnight Census Mortality were generally a fluctuating trend for all age's dead group. There was first increase which ranged between 2004 and 2006 at 3.8 percentages. A drop was experienced from 2006 to 2007 at 19.2 percentages and thereafter a constant magnitude of 7,714 deaths was experienced from 2007 to 2008.For Newborn dead group, there was also Variation of inpatient mortality with an increase from 2004 to 2005 followed by a decrease occurring between 2005 and 2007 then an increase was experienced between 2007 and 2008.

**Table 1.4 Midnight Census Deaths 2004-2008**

Facility	2004		2005		2006		2007		2008	
	All Ages Dead	Newborns Dead	All Ages Dead	Newborns Dead	All Ages Dead	Newborns Dead	All Ages Dead	Newborns Dead	All Ages Dead	Newborns Dead
<b>General Hospitals</b>										
Maun Hospital	459	19	551	25	4,65	31	372	15	378	14
delta medical centre	-	-	-	-	2	-	8	-	3	1
Sekgoma Hospital	533	48	476	38	429	10	331	45	369	23
Scottish Livingstone Hospital	495	87	404	95	495	67	413	49	425	52
Jwaneng Mine Hospital	126	11	168	15	157	14	145	24	135	9
Seventh Day Adventist Hospital	457	20	385	13	377	12	330	16	292	20
Mahalapye Hospital	504	33	471	48	433	28	318	51	356	44
Deborah Retief Mem. Hospital	226	22	232	28	272	21	275	10	286	16
Orapa (De-beers) Hospital	55	4	52	12	69	6	59	2	53	13
Princess Marina Hospital	1,414	180	1,809	391	1,569	69	1,437	52	1,159	202
Gaborone Private Hospital	60	4	65	5	116	0	106	4	104	1
Nyangabgwe Hospital	1,365	11	1,632	180	1,959	95	1,459	82	1,459	187
Bamalete Lutheran Hospital	246	4	206	3	202	2	217	3	208	127
Athlone Hospital	376	34	297	28	309	23	202	19	264	16
Mental Hospital	5	-	7	-	2	-	-	-	12	-
BCL Hospital	15	-	8	-	7	-	-	-	11	-
Selibe-Phikwe Hospital	359	52	336	57	346	51	225	41	257	34
<b>Total</b>	<b>6,695</b>	<b>529</b>	<b>7,209</b>	<b>938</b>	<b>7,209</b>	<b>429</b>	<b>5,969</b>	<b>413</b>	<b>5,771</b>	<b>759</b>
<b>Primary Hospitals</b>										
Masunga Primary Hospital	174	12	142	16	147	8	98	2	107	6
Palapye Primary Hospital	320	35	302	23	299	40	270	35	252	21
Bobonong Primary Hospital	223	12	164	18	212	17	128	16	172	18
Mmadinare Primary Hosp.	100	4	77	10	51	2	44	9	49	2
Thamaga Primary Hospital	64	6	75	6	82	3	80	4	84	6
Gantsi Primary Hospital	193	27	141	17	114	8	124	8	130	13
Sefhare Primary Hospital	124	4	125	15	141	8	188	20	205	17
Kasane Primary Hospital	106	11	86	11	68	6	90	5	124	13
Tsabong Primary Hospital	127	10	121	8	127	9	42	8	49	6
Tutume Primary Hospital	264	17	258	22	220	14	126	20	98	5
Gweta Primary Hospital	122	9	121	2	111	4	107	16	175	12
Rakops Primary Hospital	71	5	72	6	79	4	54	7	74	3
Lethakane Primary Hospital	193	10	165	13	210	9	64	14	91	12
Gumare Primary Hospital	162	27	168	25	219	36	145	23	173	24
Thebe-Phatshwa Primary	5	-	2	-	6	-	6	-	1	-
Goodhope Primary	149	16	156	11	153	7	64	13	92	8
Hukuntsi Primary hospital	94	9	62	13	72	9	79	6	59	6
<b>Total</b>	<b>2,491</b>	<b>214</b>	<b>2,237</b>	<b>216</b>	<b>2,311</b>	<b>184</b>	<b>1709</b>	<b>199</b>	<b>1,935</b>	<b>172</b>
All Clinics	7	83	22	77	22	127	36	107	8	129
<b>Grand Total:</b>	<b>9,193</b>	<b>826</b>	<b>9,468</b>	<b>1,231</b>	<b>9,542</b>	<b>740</b>	<b>7,714</b>	<b>719</b>	<b>7,714</b>	<b>1,060</b>

### 1.3 Non-institutional Deaths

This data is collected on Medical Notification of Deaths Form (MH 3002). The form is completed by the Family Welfare Educators in localities whenever they are aware of such occurrences within the catchments area in each particular district. The returns are then sent to the Health Statistics Unit on monthly basis where data capturing and analysis is done.

There was a decrease in non-institutional deaths from 2004 to 2006 at a rate of 68.4 percentages; with the highest decrease being between 2004 and 2005 at 54.4 percentages. There was an increase in institutional deaths between the years 2006 and 2007 but dropped significantly thereafter from 2007 to 2008 at 25.8 percentages decrease.

Although there were slight increases in between trends, non institutional mortality mostly decreased. Between 2004 and 2008 it decreased by about 73.6 percentages on males and 76.1 percentages on females.

(See Table 1.5 below)

**Table 1.5 Non-Institutional Deaths**

	<b>Sex</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
<b>Deaths</b>	<b>Males</b>	496	225	138	169	131
	<b>Females</b>	461	183	164	156	110
<b>Total</b>		957	408	302	325	241

*Source: 2004-2008 Health Statistics Reports: CSO*



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**Table 1.1 Major Causes of Infant Mortality (Excluding Neonatal Deaths) below One Year**

Cause	2007		Cause	2008	
	Both Sex	Percent		Both Sexes	Percent
Diarrhea and gastroenteritis of presumed infectious origin	118	17.9	Diarrhea and gastroenteritis of presumed infectious origin	131	7.1
Pneumonia, unspecified	110	16	Septicemia, unspecified	37	2.0
Septicemia, unspecified	52	7.9	Meningitis, Unspecified	17	0.9
Dehydration	37	5.6	Bronchopneumonia, unspecified	25	1.3
Unspecified human immunodeficiency virus diseases - HIV/AIDS	34	5.2	Pneumonia, unspecified	151	8.1
Bronchopneumonia	25	3.8	Pneumocystosis	13	0.7
HIV diseases resulting in other specified conditions	20	3	Volume depletion	30	1.6
HIV diseases resulting in Pneumocystic carinii pneumonia	16	2.4	Respiratory failure, unspecified	9	0.5
Anemia, unspecified	13	2	Unspecified Severe protein energy malnutrition	17	0.9
Unspecified protein-energy malnutrition	13	2	Unspecified protein energy malnutrition	6	0.3
Causes Specified Above	438	79	Causes Specified Above	436	23.5
Other Diagnosis	220	21	Other Diagnosis	1422	76.5
<b>All diseases and Conditions</b>	<b>658</b>	<b>100</b>	<b>All diseases and Conditions</b>	<b>1858</b>	<b>100</b>

**Table 1.2 Major Causes of childhood Mortality (Excluding Neonatal Deaths) below Five Years**

Cause	2007		Cause	2008	
	Both Sex	Percent		Both Sexes	Percent
Diarrhea and gastroenteritis of presumed infectious origin	229	17.6	Diarrhea and gastroenteritis of presumed infectious origin	75	7.3
Pneumonia, unspecified	191	14.7	Septicemia, unspecified	17	1.6
Septicemia, unspecified	93	7.1	Retroviral infections, not elsewhere classified	5	0.5
Dehydration	90	6.9	Meningitis, unspecified	7	0.7
Unspecified human immunodeficiency virus diseases - HIV/AIDS	87	6.7	Bronchopneumonia, unspecified	5	0.5
Bronchopneumonia	57	4.4	Pneumonia, unspecified	36	3.5
HIV diseases resulting in other specified conditions	52	4	Kwashiorkor	15	1.5
HIV diseases resulting in Pneumocystic carinii pneumonia	35	2.7	Volume depletion	14	1.4
Anemia, unspecified	34	2.6	Unspecified Severe protein energy malnutrition	32	3.1
Unspecified protein-energy malnutrition	25	1.9	Unspecified protein energy malnutrition	24	2.3
Causes Specified Above	893	68.6	Causes Specified Above	230	22.3
Other Diagnosis	408	31.4	Other Diagnosis	802	77.7
<b>All diseases and Conditions</b>	<b>1301</b>	<b>100</b>	<b>All diseases and Conditions</b>	<b>1032</b>	<b>100</b>

**Table 1.3 Major Causes of Inpatient Mortality (Excluding Neonatal Deaths) All Age Groups Years**

Cause	2007		Cause	2008	
	Both Sexes	Percent		Both Sexes	Percent
Unspecified human immunodeficiency virus diseases - HIV/AIDS	1,022	9.2	Pneumonia, unspecified	629	8.5
Pneumonia, unspecified	681	6.1	Unspecified human immunodeficiency virus diseases - HIV/AIDS	442	6.0
HIV diseases resulting in other specified conditions	636	5.7	Tuberculosis of lung, Without mention of bacteriological or historical confirmation	362	4.9
Diarrhea and gastroenteritis of presumed infectious origin	574	5.2	Stroke, not specified as hemorrhage or infarction	230	3.1
HIV diseases resulting in tuberculosis	565	5.1	Retrovirus infections, not elsewhere classified	226	3.0
Retrovirus infections, not otherwise specified	478	4.3	Septicemia, unspecified	242	3.3
Septicemia, unspecified	300	2.7	Congestive heart failure	173	2.3
Tuberculosis of lung, without mention of bacteriological or histological confirmation	290	2.6	Anemia, unspecified	148	2.0
Cerebrovascular accident, not otherwise specified	287	2.6	Cerebral cryptococcosis	143	1.9
Anemia, unspecified	256	2.3	Diarrhea and gastroenteritis of presumed infectious origin	453	6.1
Causes Specified Above	5,089	46	Causes Specified Above	3048	41.1
Other Diagnosis	5,986	54	Other Diagnosis	4362	58.9
<b>All diseases and Conditions</b>	<b>11,075</b>	<b>100</b>	<b>All diseases and Conditions</b>	<b>7,410</b>	<b>100</b>

*Source: Health Statistics Report 2007-2008: CSO*



