



# ལྷོ་ལྷོ་གཞུང་གྱི་ནད་རིགས་དང་ལྷོ་རིམ་གྱི་རྩུན་ལུ།

## Quarterly Morbidity & Activity Report



Vol.V, Issue II (April - June, 2012)

September, 2012

### Editorial

The new editorial team for QMAR is pleased to bring out the fifth volume issue two of the QMAR for the period April-June 2012.

The data published in this report are based on the hospital activity report submitted by different health centers to the HMIS unit in the Ministry of Health.

Some of the interesting observation in this quarterly report: Abortion is the common cause of pregnancy related complications in all the Dzongkhags; Neonatal deaths and deaths due to alcohol liver diseases are main causes of mortality; Common cold is number one cause of morbidity; Hypertension is more common among females as compare to males; Both over nutrition and under nutrition are equally common among children attending the maternal and child health clinics.

Evidence-based decision making has become a major force in many national health care organizations to make decisions on the future of the health care delivery system. It is time for us to have concrete evidences to guide our policy makers and clinicians to make evidence-based decisions.

As Evidence based medicine is the process of systematically reviewing, appraising and using clinical research findings for decision making, above observation in the quarterly report needs to be further analyzed and researched to provide enough evidence for decision making.

Neonatal deaths are reviewed routinely and similarly deaths due to other causes should be reviewed through formalizing mortality reviews meetings in bigger hospitals. Research should be conducted on other observations like common cold being number one cause of morbidity; more women as compared to their counterpart are suffering from hypertension; reason for increasing over nutrition among children.

Research is crucial for getting more evidences for decision making, therefore as stated in the National Health Policy “National health research system should be enhanced to provide enabling structure to facilitate in conducting research that improves human health and supports evidence-based decision making”.

We hope that the report published in this issue will benefit those who are interested to learn about hospital activities in Bhutan.

(Dr. Pandup Tshering)  
For the Editorial Team

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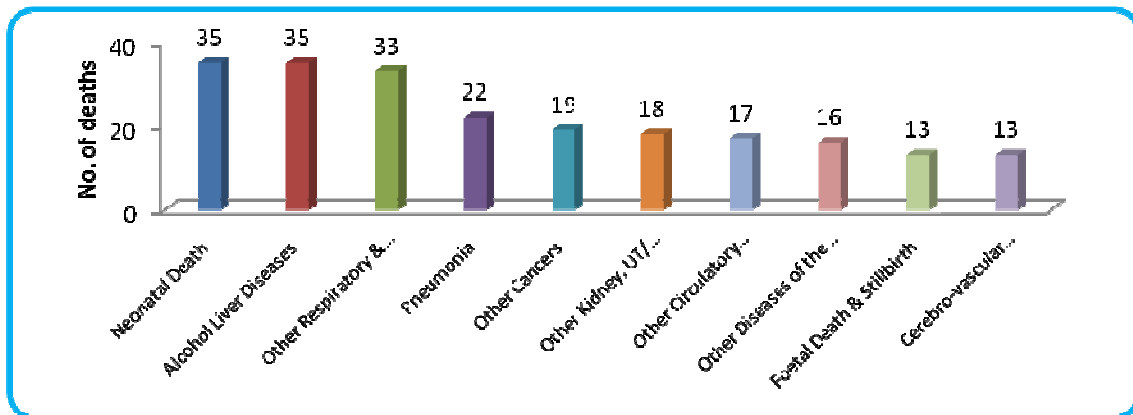
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## 1. Mortality

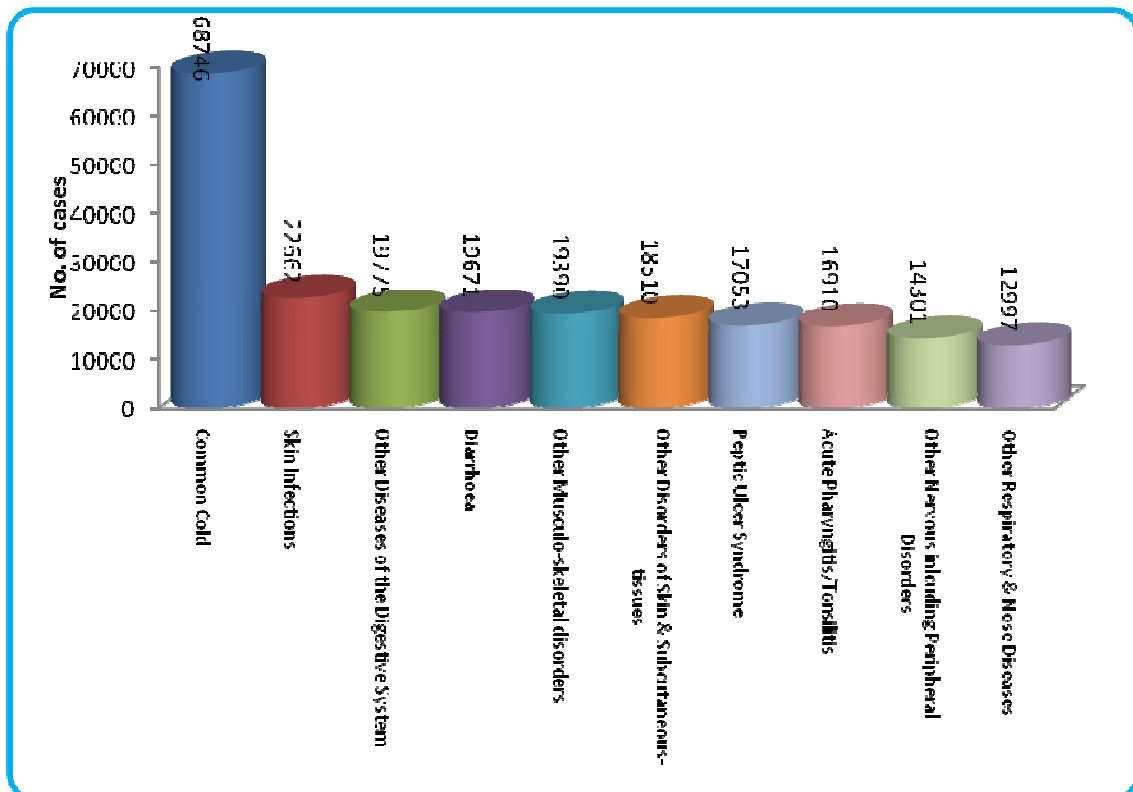
Total deaths of 171 people have been recorded in the second quarter of 2012 across all health facilities in the country.

**Figure 1a: Top ten causes of mortality reported from health facilities in Bhutan (April-June, 2012)**



## 2. Top Ten Morbidity

**Figure 2a: Top ten morbidities reported from health facilities in Bhutan (April-June, 2012)**



### 3. Patient Referral (April-June, 2012)

Health Facility	Number of Patients Referred in*	Number of Patient Referred Out**
JDWNRH	543	27
MRRH	290	87
GRRH	198	83

\*Number of Patients referred from other hospitals

\*\* Number of Patients referred by the hospital to other hospitals (both in-county and aboard)

### 4. Surgical procedures in Regional and National Referral Hospitals (April-June, 2012)

Type of Surgery	JDWNRH*			MRRH**			GRRH***		
	Major	Minor	Laparoscopic	Major	Minor	Laparoscopic	Major	Minor	Laparoscopic
Caesarian Section	146			54			61		
General Abdominal	76	60	83	28	2	0	9	17	0
General Others	121	90	0	25	32	0	34	47	0
Orthopaedic: Extremities	31	106	10	32	34	0	0	0	0
Orthopaedic: Others	0	0	0	4	4	0	0	0	0
Gynaecology	17	0	0	10	42	3	2	37	0
ENT	10	32	14	13	45	0	0	14	0
EYE	20	125	9	14	5	0	0	0	0

\*Jigme Dorji Wangchuck National Referral Hospital

\*\*Mongar Regional Referral Hospital (Eastern)

\*\*\*Gelephu Regional Referral Hospital (Central)

**5. Ante-natal Visits and TT2+ Injections administered to pregnant mothers by Dzongkhags (April -June, 2012)**

Dzongkhag	1st Visit	2nd Visit	3rd Visit	4th Visit	4+ Visit	TT2+
Bumthang	67	81	78	68	95	54
Chukha	391	423	448	354	879	340
Dagana	123	92	104	58	71	96
Gasa	13	7	16	11	6	14
Haa	66	56	43	46	57	52
Lhuentse	87	79	79	57	69	70
Mongar	214	204	197	162	248	214
Paro	205	236	177	173	270	171
Pemagatshel	97	119	90	70	89	70
Punakha	107	112	81	71	112	96
SamdrupJongkhar	210	191	147	102	113	162
Samtse	261	289	284	266	459	250
Sarpang	170	191	176	163	315	219
Thimphu	733	706	654	502	1241	629
Trashigang	237	227	182	157	178	238
Trongsa	68	78	71	49	104	60
Tsirang	89	80	85	72	101	73
Zhemgang	114	93	80	54	86	87
<b>Total</b>	<b>3252</b>	<b>3264</b>	<b>2992</b>	<b>2435</b>	<b>4493</b>	<b>2895</b>

**6. Deliveries attended by health workers and use of forceps/vacuum among attended deliveries by Dzongkhags (April-June 2012)**

Dzongkhag	Home	Facility	Forceps/Vacuum
Bumthang	5	52	0
Chukha	6	202	1
Dagana	4	43	0
Gasa	1	1	0
Haa	14	23	0
Lhuentse	16	7	0
Mongar	12	215	9
Paro	0	124	0
Pemagatshel	10	38	0
Punakha	3	161	9

SamdrupJongkhar	8	82	0
Samtse	19	101	3
Sarpang	3	171	1
Thimphu	2	660	12
Trashigang	19	141	0
Trongsa	3	19	0
Tsirang	1	52	0
Zhemgang	16	23	1
<b>Total</b>	<b>142</b>	<b>2115</b>	<b>36</b>

### 7. Post-Natal Care Visits by Dzongkhags (April-June, 2012)

Dzongkhag	1st Visit	2+ Visit
Bumthang	36	20
Chukha	212	231
Dagana	50	32
Gasa	4	3
Haa	33	55
Lhuentse	37	37
Mongar	142	153
Paro	150	133
Pemagatshel	43	32
Punakha	50	72
SamdrupJongkhar	74	79
Samtse	133	166
Sarpang	48	98
Thimphu	664	752
Trashigang	118	104
Trongsa	21	20
Tsirang	41	21
Zhemgang	39	16
<b>Total</b>	<b>1895</b>	<b>2024</b>

### 8. Use of family planning methods by Dzongkhags (April-June, 2012)

Dzongkhag	IUD	OralP	DMPA	Condom Distributed (Pieces)
Bumthang	15	1022	544	15874

Chukha	36	3858	1466	20874
Dagana	5	1034	1195	9816
Gasa	0	66	150	2383
Haa	4	304	385	6859
Lhuentse	6	740	306	10026
Mongar	41	769	2095	48131
Paro	10	541	1054	29079
Pemagatshel	2	591	803	9034
Punakha	22	649	879	10092
SamdrupJongkhar	6	888	1175	14021
Samtse	15	3041	1312	17806
Sarpang	14	1655	1368	16147
Thimphu	84	1400	2963	42480
Trashigang	9	1121	1752	29210
Trongsa	7	427	499	15669
Tsirang	5	476	1331	5476
Zhemgang	5	509	872	7733
<b>Total</b>	<b>286</b>	<b>19091</b>	<b>20149</b>	<b>310710</b>

**NB:** Numbers of new IUDs inserted; cycles of oral pills prescribed (one user is equal to 13 cycles or 12 cycles); Number of DMPA injected (One user is equal to four injections); and number of condoms distributed.

### 9. Pregnancy, Child Birth and Puerperium (April- June, 2012)

Pregnancy Related Complications	Number of patients																	Total	
	Bumthang	Chukha	Dagana	Gasa	Haa	Lhuentse	Mongar	Paro	P/Gatshel	Punakha	S/Jongkhar	Samtse	Sarpang	Thimphu	Trashigang	Trongsa	Tsirang		Zhemgang
Abortions	10	48	3	0	2	6	7	17	8	36	13	17	53	83	31	4	9	6	353
Pregnancy Induced Hypertension	3	12	0	0	7	2	15	11	2	5	9	11	52	28	13	0	4	3	177
Ante-Partum Haemorrhage & Placenta Previa	1	1	2	0	0	1	3	3	0	2	3	1	11	14	1	0	1	2	46
Malpresentation	1	5	0	0	0	1	0	2	1	4	1	2	8	1	4	0	4	0	34
Prolonged Labour	2	12	0	0	1	4	23	2	1	13	6	6	98	12	8	0	1	1	190
Obstructed Labour	0	1	0	0	0	0	0	0	1	0	1	0	54	15	2	0	0	0	74

Post Partum Haemorrhage	2	3	2	0	0	2	3	3	0	3	2	1	2	2	4	0	0	1	30
Retained Placenta	3	5	2	0	0	0	5	1	2	1	4	4	4	0	6	0	1	4	42
Puerperal Sepsis	0	3	1	0	0	0	1	0	0	0	1	1	0	9	2	2	1	0	21

*\*Abortions include following categories as per the BMHIS manual (2009):*

*Ectopic pregnancy, Hydatidiform mole, Other abnormal products of conception, Spontaneous abortion, Medical abortions, Other abortion, Unspecified abortion, Failed attempted abortions, and Complication following abortion and ectopic and molar pregnancy*

## 10. Perinatal Conditions by Dzongkhags (April-June, 2012)

### 10.1. Number of patients

Conditions	Bumthang	Chukha	Dagana	Gasa	Haa	Lhuentse	Mongar	Paro	Pemagatshel	Punakha	S/Jongkhar	Samtse	Sarpang	Trashigang	Trongsa	Tsirang	Zhemgang	Total
Low Birth Weight	0	5	1	0	0	0	5	3	3	3	2	9	8	4	2	0	0	45
Foetal Death & Stillbirth	0	9	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	13
Neonatal Death	1	2	0	0	0	0	1	0	1	0	2	1	2	0	1	0	0	11
Conditions Originating in the Perinatal Period	9	20	5	0	2	2	51	8	5	11	20	4	15	27	2	2	0	183

### 10.2. Number of Deaths

Conditions	Bumthang	Chukha	Dagana	Gasa	Haa	Lhuentse	Mongar	Paro	Pemagatshel	Punakha	S/Jongkhar	Samtse	Sarpang	Trashigang	Trongsa	Tsirang	Zhemgang	Total
Low Birth Weight	0	0	0	0	0	0	2	0	0	0	0	1	0	2	0	0	0	5
Foetal Death & Stillbirth	0	9	0	0	0	0	3	0	0	0	0	1	0	0	0	0	0	13
Neonatal Death	1	2	0	0	0	0	1	0	1	2	1	2	24	0	1	0	0	35
Conditions Originating in the Perinatal Period	0	0	0	0	0	0	2	0	0	1	0	0	0	2	1	0	0	6

**11. Child Clinical Attendance for Immunization and Antenatal Checkups (April-June 2012)**

Dzongkhag	Under 1		1 to 5 Years	
	New*	Old**	New*	Old**
Bumthang	72	715	2	895
Chukha	285	3944	1	2862
Dagana	93	984	5	1162
Gasa	10	99	0	86
Haa	47	462	2	524
Lhuentse	61	595	3	600
Mongar	294	1993	3	2839
Paro	138	1810	0	1688
Pemagatshel	89	897	14	1394
Punakha	156	683	3	722
SamdrupJongkhar	138	1212	0	1393
Samtse	181	2138	0	2375
Sarpang	187	1846	13	1589
Thimphu	1014	5545	50	4353
Trashigang	241	1837	34	2028
Trongsa	53	542	5	656
Tsirang	94	747	9	952
Zhemgang	74	724	24	1058
<b>Total</b>	<b>3227</b>	<b>26773</b>	<b>168</b>	<b>27176</b>

\* New = No. of children attending clinics for the first time

\*\*Old= second and the subsequent attendance by the same child

**12. Nutritional status of the children who have attended clinics (April-June, 2012)**

Dzongkhag	Over Weight	Normal	Malnutrition	Severe Malnutrition
Bumthang	8	1656	18	0
Chukha	113	6765	182	29
Dagana	44	2022	162	14
Gasa	1	185	4	0
Haa	11	999	23	2
Lhuentse	14	1197	30	5
Mongar	65	4896	129	7
Paro	62	3385	114	25
Pemagatshel	42	2178	143	30



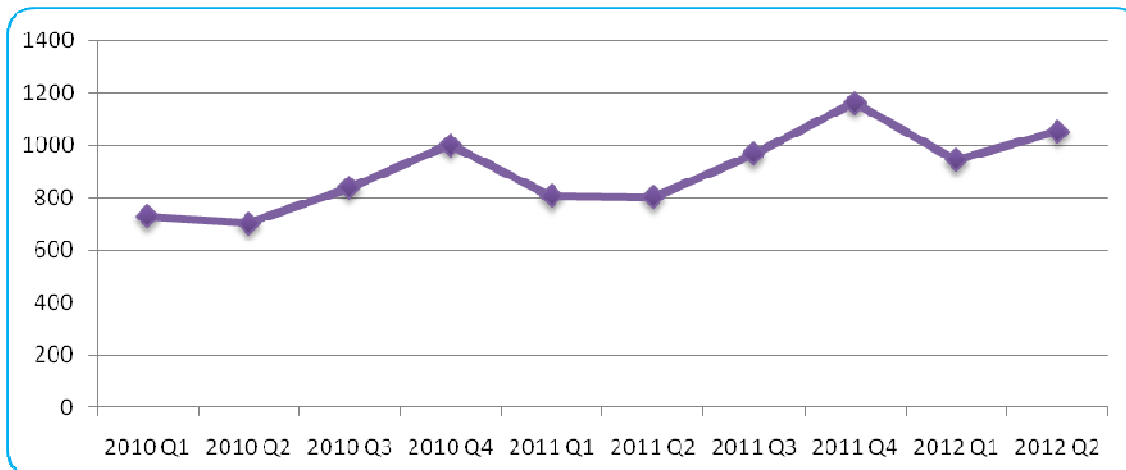
Punakha	223	1289	45	0
SamdrupJongkhar	58	2516	126	10
Samtse	27	4445	207	15
Sarpang	48	3480	93	14
Thimphu	173	10391	347	51
Trashigang	75	3889	144	32
Trongsa	6	1195	32	3
Tsirang	55	1538	175	6
Zhemgang	26	1779	66	3
<b>Total</b>	<b>1051</b>	<b>53805</b>	<b>2040</b>	<b>246</b>

### 13. Number of new diabetes cases and related deaths by Dzongkhags (April-June 2012)

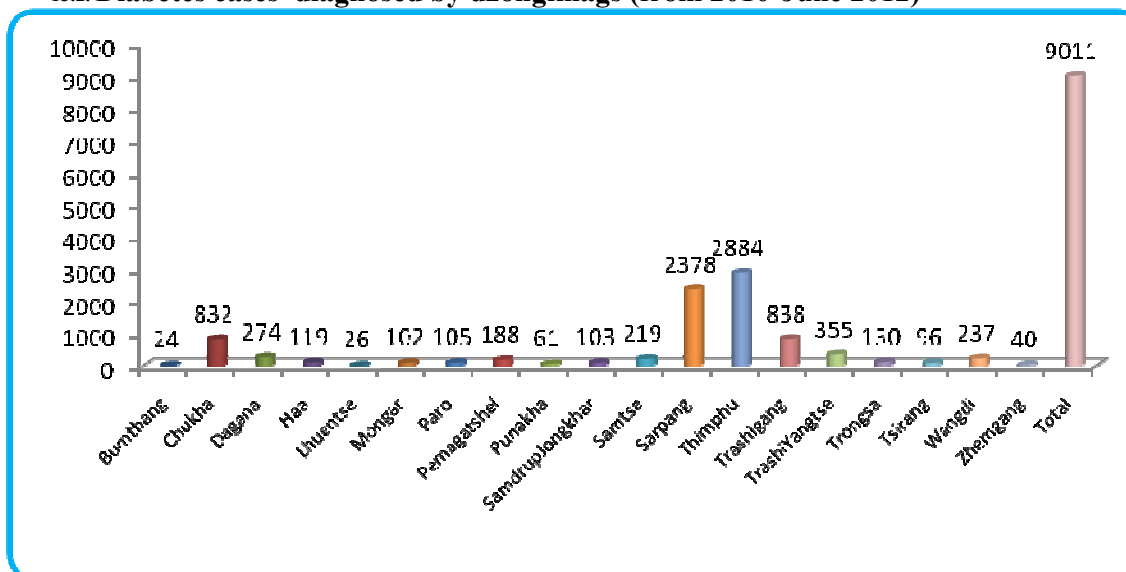
Dzongkhag	Cases	Death
Bumthang	6	0
Chukha	103	0
Chukha	10	0
Dagana	102	0
Haa	4	0
Lhuentse	0	0
Mongar	12	0
Paro	24	0
Pemagatshel	32	1
Punakha	1	0
SamdrupJongkhar	8	0
Samtse	32	0
Sarpang	123	1
Sarpang	76	0
Thimphu	337	1
Trashigang	116	0
Trongsa	1	0
Tsirang	61	1
Zhemgang	5	0
<b>Total</b>	<b>1053</b>	<b>4</b>

*Note: some old cases might have been reported as new by the health facilities especially when patients do not produce old prescriptions (the patients hand book) nor declare their status in their subsequent visits to the health facilities.*

13.1. Diabetes cases ( January 2010- June 2012)

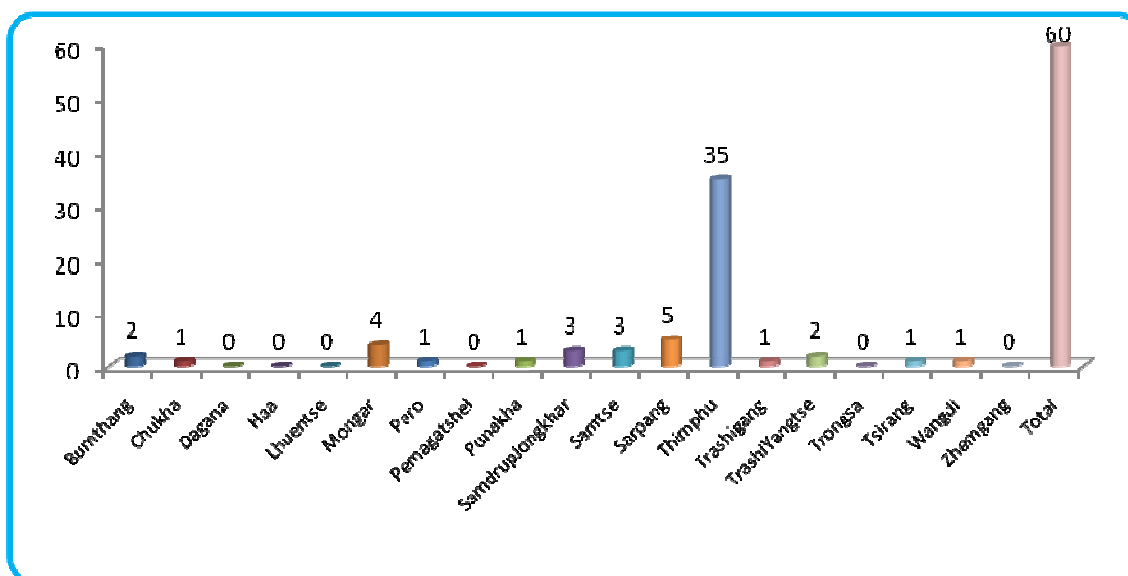


13.2. Diabetes cases diagnosed by dzongkhags (from 2010-June 2012)



From 1<sup>st</sup> January 2010 to 30<sup>th</sup> June 2012, a total of 9011 new cases of diabetes were diagnosed in the country.

### 13.3. Diabetes related deaths by dzongkhags (from 2010-June 2012)

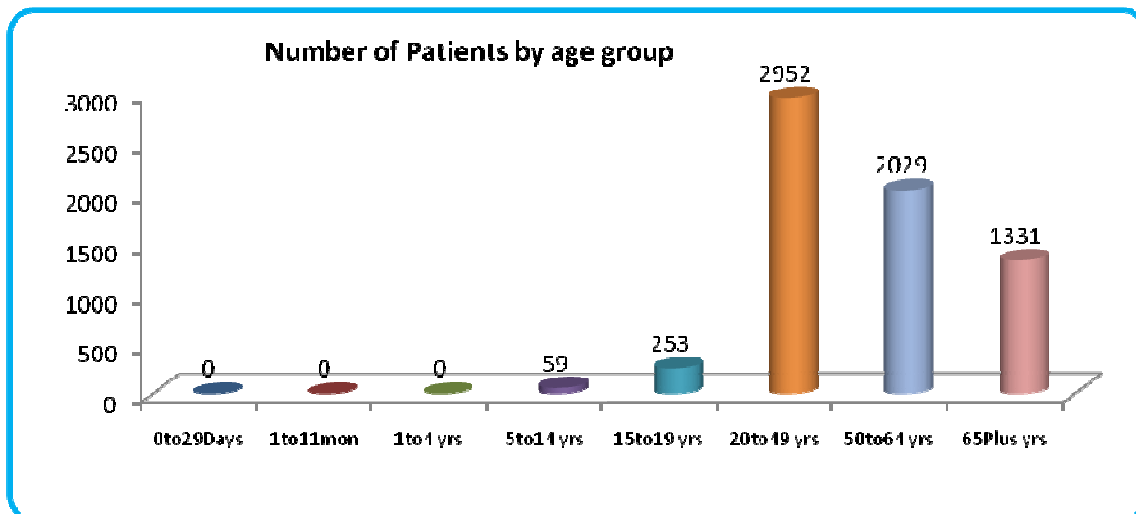


From 1<sup>st</sup> January 2010 to 30<sup>th</sup> June 2012, a total of 60 deaths related to diabetes were reported by the health facilities.

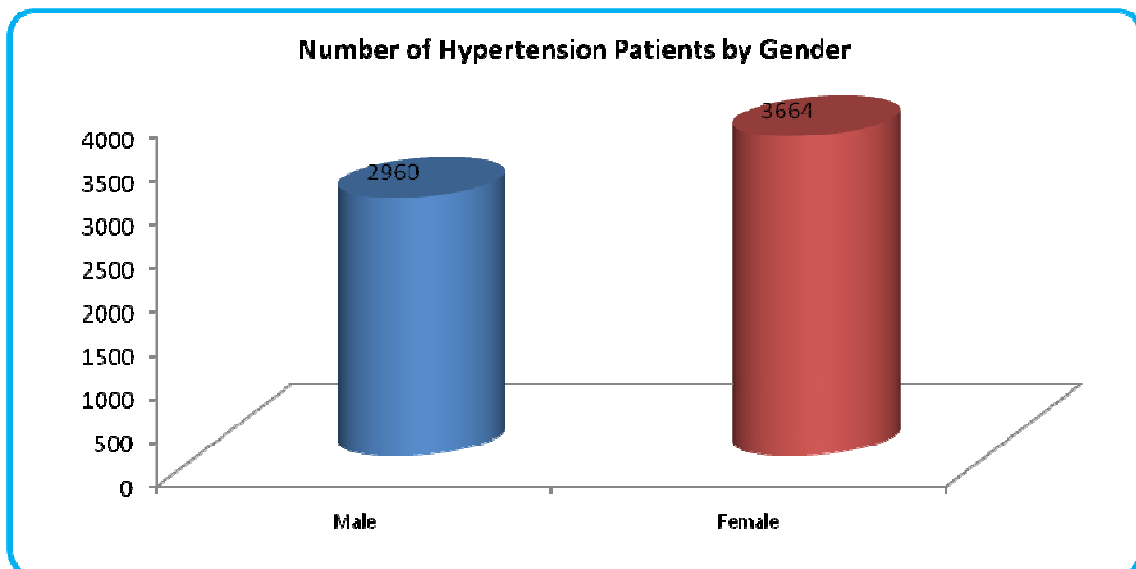
### 14. Number of hypertension patients and related deaths (April-June, 2012)

Dzongkhag	No. of Patients	No. of Related Death
Bumthang	103	0
Chukha	892	0
Dagana	436	0
Gasa	27	0
Lhuentse	52	0
Mongar	154	0
Paro	166	0
Pemagatshel	848	0
Punakha	153	0
SamdrupJongkhar	235	0
Samtse	568	2
Sarpang	465	0
Thimphu	754	3
Trashigang	877	0
Trashiyangtse	62	0
Trongsa	80	0
Tsirang	356	0
Wangdi	593	0
Zhemgang	281	0
<b>Total</b>	<b>7178</b>	<b>5</b>

**14.1. Number of new hypertension cases by age group (April-June 2012)**



**14.2. Number of new hypertension patients by gender (April-June 2012)**



**15. Laboratory Report for Tuberculosis (April-June 2012)**

Gender	No. sputum examined (A)	No. of people with sputum smear +ve (B)	% smear +ve
Male	1039	70	6.74
Female	1050	72	6.86
Total	2089	142	6.80

## 15.1. New and re-treatment cases of TB (April-June 2012)

Gender	Pulmonary positive				Pulmonary negative	Extra Pulmonary	Total	Case finding indicators A/(A+E+F) *100
	New (A)	Relapse (B)	Failure (C)	Default (D)	New (E)	New (F)		
Male	56	10	2	2	24	64	158	38.88
Female	63	8	0	1	16	81	169	39.37
Total	119	18	2	3	40	145	327	39.14

## 16. New cases of STI (excluding HIV/AIDS) for the second quarter of 2012

Infection type	Bumthang	Chukha	Dagana	Gasa	Haa	Lhuentse	Mongar	Paro	Pemagatshel	Punakha	S/Jongkhar	Samtse	Sarpang	Thimphu	Trashigang	Trongsa	Tsirang	Zhemgang	Total
Genital Ulcer/Bubo	0	31	0	0	31	1	9	0	2	1	6	0	4	0	7	0	3	1	96
Urethral/Vaginal Discharges	3	67	26	1	5	8	33	78	10	51	33	12	33	50	35	21	9	14	489
Other Sexually Transmitted Disease, excluding HIV/AIDS	2	9	14	3	1	4	8	7	5	28	16	9	12	12	25	8	1	8	172

## 17. Malaria cases and deaths (April-June 2012)

## 17.1. Cases by dzongkhags

Disease	Bumthang	Chukha	Dagana	Gasa	Haa	Lhuentse	Mongar	Paro	Pemagatshel	Punakha	S/Jongkhar	Samtse	Sarpang	Thimphu	Trashigang	Trongsa	Tsirang	Zhemgang	Total
Plasmodium falciparum malaria	0	0	1	0	0	0	0	0	0	0	4	0	19	1	0	0	0	0	25
Other Malaria	0	1	0	0	0	0	0	1	0	0	2	0	25	2	0	1	0	0	32

## 17.2. Deaths by dzongkhags

Disease	Bumthang	Chukha	Dagana	Gasa	Haa	Lhuentse	Mongar	Paro	Pemagatshel	Punakha	S/Jongkhar	Samtse	Sarpang	Thimphu	Trashigang	Trongsa	Tsirang	Zhemgang	Total
Plasmodium falciparum malaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Malaria	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1

## 18. Diseases of Circulatory System: cases and death (April-June 2012)

### 18.1. Number of Cases by dzongkhags

Disease	Bumthang	Chukha	Dagana	Gasa	Haa	Lhuentse	Mongar	Paro	Pemagatshel	Punakha	S/Jongkhar	Samtse	Sarpang	Thimphu	Trashigang	Trongsa	Tsirang	Zhemgang	Total
Rheumatic Heart Disease	1	6	8		2	0	12	0	2	5	0	2	54	32	7	1	0	2	134
Hypertension	103	894	436	27	76	52	154	166	484	153	235	568	930	754	877	80	356	281	6626
Ischaemic Heart Diseases	0	8	12		1	1	0	0	0	0	0	12	0	13	0	0	0	1	48
Cerebro-vascular Diseases	0	13	1		0	0	0	4	1	4	4	10	14	39	3	1	3	0	97
Other Circulatory Diseases	3	80	12	64	27	35	126	22	55	271	79	24	197	96	289	30	10	15	1435

### 18.2. Number of Deaths by dzongkhags

Disease	Bumthang	Chukha	Dagana	Gasa	Haa	Lhuentse	Mongar	Paro	Pemagatshel	Punakha	S/Jongkhar	Samtse	Sarpang	Thimphu	Trashigang	Trongsa	Tsirang	Zhemgang	Total
Rheumatic Heart Disease	0	0	0		0	0	0	0	0	0	0	0	1	1	0	0	0	0	2
Hypertension	0	0	0	0	0	0	0	0	0	0	0	2	1	3	0	0	0	0	6
Ischaemic Heart Diseases	0	1	0		0	0	0	0	0	0	0	1	0	2	0	0	0	0	4
Cerebro-vascular Diseases	0	1	0		0	0	0	0	0	1	0	0	2	8	1	0	0	0	13
Other Circulatory Diseases	1	0	0	0	0	0	2	1	1	1	2	1	0	6	1	0	1	0	17

## 19. Diseases of Digestive System: cases and deaths (April-June 2012)

### 19.1. Number of cases

Disease	Bumthang	Chukha	Dagana	Gasa	Haa	Lhuentse	Mongar	Paro	Pemagatshel	Punakha	S/Jongkhar	Samtse	Sarpang	Thimphu	Trashigang	Trongsa	Tsirang	Zhemgang	Total
Diseases of Teeth & Gums	96	534	63	10	23	47	128	318	254	143	251	278	611	365	457	90	88	176	3932
Dental Caries	232	751	544	67	428	173	484	1044	223	367	367	539	1312	714	1136	225	495	355	9456
Peptic Ulcer Syndrome	391	2047	929	184	370	258	546	1113	766	898	891	1139	1242	2180	1840	786	828	645	17053
Acute Appendicitis	0	7	1		0	3	2	5	6	0	1	1	23	51	2	0	1	2	105
Alcohol Liver Diseases	9	43	12	0	6	2	41	40	26	16	28	32	61	102	60	16	15	18	527
Gall Bladder Diseases	2	7	0		0	0	15	5	1	0	3	9	21	93	2	0	4	0	162
Other Diseases of the Digestive System	523	2006	1200	83	248	348	1436	1724	862	876	1248	1456	2112	1940	2340	347	573	453	19775

### 19.2. Number of deaths

Disease	Bumthang	Chukha	Dagana	Gasa	Haa	Lhuentse	Mongar	Paro	Pemagatshel	Punakha	S/Jongkhar	Samtse	Sarpang	Thimphu	Trashigang	Trongsa	Tsirang	Zhemgang	Total
Diseases of Teeth & Gums	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dental Caries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peptic Ulcer Syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acute Appendicitis	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alcohol Liver Diseases	2	1	1	0	0	0	1	2	0	2	2	2	5	9	4	1	1	2	35
Gall Bladder Diseases	0	0	0		0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Other Diseases of the Digestive System	1	1	0	0	0	0	1	2	0	0	0	3	1	6	0	0	1	0	16

**20. Mental disorder: Number of cases (April-June, 2012)**

Types	Bumthang	Chukha	Dagana	Gasa	Haa	Lhuentse	Mongar	Paro	Pemagatshel	Punakha	S/Jongkhar	Samtse	Sarpang	Thimphu	Trashigang	Trongsa	Tsirang	Zhemgang	Total
Psychosis	0	0	0		0	0	0	0	0	1	1	3	3	6	0	0	1	2	17
Depression	1	10	6	0	1	2	0	0	12	6	4	22	11	30	22	1	1	0	129
Anxiety	5	13	16	0	7	0	0	30	3	15	9	13	10	59	6	3	0	23	212
Other Mental Disorders	3	69	8	0	6	3	19	3	38	3	16	7	8	30	15	10	15	1	254

There was no reported death because of mental disorder in the second quarter of 2012 (April to June 2012)

**21. Immunization: Infant (0-11 months) and children (1-4 years) for the 2<sup>nd</sup> quarter of 2012**

Dzongkhag	OPV1	OPV2	OPV3	DPT HepB1, Hib	DPT HepB2, Hib	DPT HepB3, Hib	BCG	Polio0	MR1	FullImm*	MR2	DT
Bumthang	74	70	76	74	70	76	69	58	101	103	84	77
Chukha	346	311	314	346	311	314	280	268	339	338	295	131
Dagana	101	109	132	101	107	134	88	61	119	120	98	74
Gasa	14	19	18	14	19	18	7	4	10	10	12	10
Haa	47	58	56	47	58	56	35	31	52	52	52	52
Lhuentse	65	54	74	64	54	73	52	43	80	80	76	65
Mongar	212	181	185	211	183	186	291	247	204	203	173	113
Paro	185	206	208	185	206	206	142	131	172	172	198	0
Pemagatshel	80	74	91	80	70	91	85	72	104	103	86	83
Punakha	119	127	143	119	127	143	132	142	110	110	110	86
SamdrupJongkhar	120	139	166	122	139	169	130	96	145	138	129	134
Samtse	246	308	319	251	311	328	177	164	267	267	218	39
Sarpang	170	184	187	170	184	187	175	148	192	192	145	146
Thimphu	666	692	651	666	692	651	959	948	616	613	767	496
Trashigang	217	225	240	217	225	240	231	160	195	195	162	149
Trongsa	57	60	59	57	60	59	46	29	86	78	62	62
Tsirang	99	93	87	100	92	87	94	84	95	95	78	62
Zhemgang	68	67	67	74	70	70	60	40	87	87	68	51
<b>Total</b>	<b>2886</b>	<b>2977</b>	<b>3073</b>	<b>2898</b>	<b>2978</b>	<b>3088</b>	<b>3053</b>	<b>2726</b>	<b>2974</b>	<b>2956</b>	<b>2813</b>	<b>1830</b>

\*Fully Immunized



**21.1. Number of vaccine doses used (April-June 2012)**

<b>Dzongkhag</b>	<b>BCG</b>	<b>MRU</b>	<b>OPV</b>	<b>DPT Hep B, Hib</b>	<b>DT</b>	<b>TT</b>
Bumthang	522	406	494	220	206	168
Chukha	924	1153	1437	1015	272	564
Dagana	839	679	815	324	272	662
Gasa	82	88	152	46	32	76
Haa	580	650	540	163	200	420
Lhuentse	661	672	843	180	341	662
Mongar	2361	1711	1801	577	463	1051
Paro	1500	1250	900	583	480	1394
Pemagatshel	852	704	729	267	385	674
Punakha	1124	809	698	391	269	423
SamdrupJongkhar	757	815	872	423	508	706
Samtse	1432	1401	1253	846	103	1789
Sarpang	1088	961	1021	571	439	1394
Thimphu	2065	2190	3248	2008	845	1831
Trashigang	1980	1410	1772	703	463	1470
Trongsa	590	560	520	187	356	620
Tsirang	433	466	611	287	216	537
Zhemgang	643	679	667	214	223	504
<b>Total</b>	<b>18433</b>	<b>16604</b>	<b>18373</b>	<b>9005</b>	<b>6073</b>	<b>14945</b>

**21.2. Number of vaccine doses discarded due to expiry date (April-June 2012)**

<b>Dzongkhag</b>	<b>BCG</b>	<b>MR</b>	<b>OPV</b>	<b>DPT Hep B, Hib</b>	<b>DT</b>	<b>TT</b>
Bumthang	0	0	0	0	0	0
Chukha	0	0	0	0	0	0
Dagana	0	0	0	0	0	0
Gasa	0	0	0	0	0	0
Haa	0	0	0	0	0	0
Lhuentse	0	0	0	0	0	0
Mongar	0	0	0	0	0	0
Paro	0	0	0	0	0	0
Pemagatshel	0	0	0	0	0	0
Punakha	0	0	0	0	0	0
SamdrupJongkhar	0	0	0	0	0	0
Samtse	37	14	0	0	0	0
Sarpang	0	0	0	0	0	0
Thimphu	0	0	0	0	0	0
Trashigang	0	0	0	0	0	0
Trongsa	20	0	0	0	0	0
Tsirang	0	0	0	0	0	0
Zhemgang	0	0	20	0	0	0
<b>Total</b>	<b>57</b>	<b>14</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>

## 21.3. Number of doses discarded due to freezing (April-June 2012)

Dzongkhag	BCG	MR	OPV	DPT Hep B, Hib	DT	TT
Bumthang	0	0	0	0	0	0
Chukha	0	0	0	0	0	0
Dagana	0	0	0	0	0	0
Gasa	0	2	3	1	0	1
Haa	0	0	0	0	0	0
Lhuentse	0	0	0	0	0	0
Mongar	0	0	0	0	0	0
Paro	0	0	0	0	0	0
Pemagatshel	0	0	0	0	0	0
Punakha	0	0	0	0	0	0
SamdrupJongkhar	0	0	0	0	0	0
Samtse	0	0	24	0	0	3
Sarpang	0	0	0	0	0	0
Thimphu	0	0	0	0	0	0
Trashigang	0	0	0	0	0	0
Trongsa	0	0	0	0	0	0
Tsirang	0	0	0	0	0	0
Zhemgang	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>2</b>	<b>27</b>	<b>1</b>	<b>0</b>	<b>4</b>

## 22. Respiratory diseases (April-June 2012)

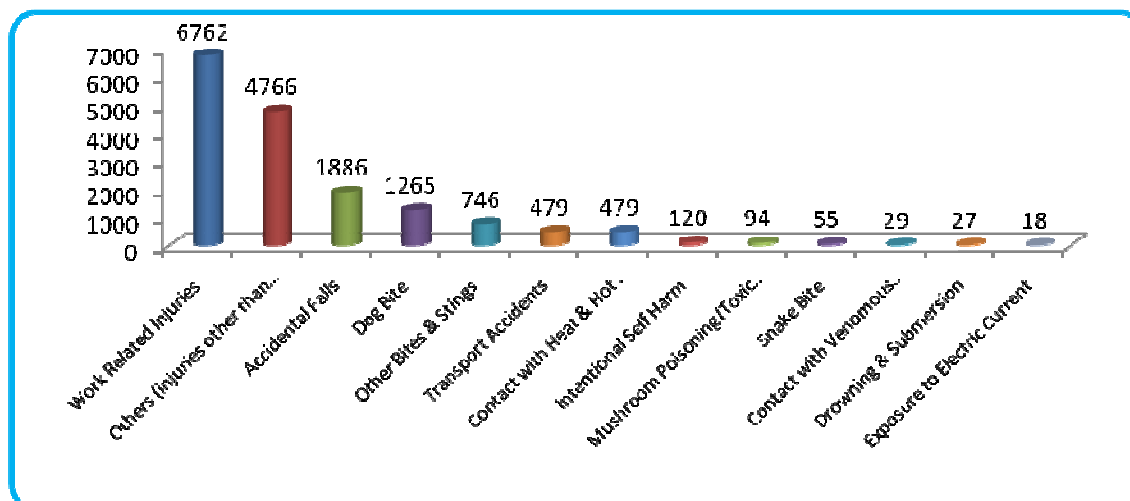
## 22.1. Number of cases by Dzongkhags

Disease	Bumthang	Chukha	Dagana	Gasa	Haa	Lhuentse	Mongar	Paro	Pemagatshel	Punakha	S/Jongkhar	Samtse	Sarpang	Thimphu	Trashigang	Trongsa	Tsirang	Zhemgang	Total
Common Cold	1173	7232	4479	478	1012	1743	3423	3838	2835	3722	4609	6583	6536	5070	9006	1594	2973	2440	68746
Acute Pharyngitis /Tonsillitis	553	2311	621	18	136	263	509	1655	524	938	713	2063	2543	1056	1398	237	927	445	16910
Pneumonia	61	476	222	7	32	47	471	129	179	116	314	334	516	140	344	50	146	96	3680
Other Respiratory & Nose Diseases	298	1426	387	48	270	166	912	666	214	541	807	1421	2156	1301	1347	229	311	497	12997

## 22.2. Number of deaths by Dzongkhags

Disease	Bumthang	Chukha	Dagana	Gasa	Haa	Lhuentse	Mongar	Paro	Pemagatshel	Punakha	S/Jongkhar	Samtse	Sarpang	Thimphu	Trashigang	Trongsa	Tsirang	Zhemgang	Total
Common Cold	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acute Pharyngitis /Tonsillitis	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2
Pneumonia	2	1	1	0	0	0	3	0	0	0	1	1	4	9	0	0	0	0	22
Other Respiratory & Nose Diseases	1	3	0	0	0	1	2	0	0	3	0	2	10	8	2	0	1	0	33

Figure: Injury and Trauma (April-June 2012)



## 23. Total number of admitted patients (April-June 2012)

Dzongkhag	Total Admission	Patient Days	Average Patient Days
Bumthang	269	765	2.8
Chukha	1132	4516	4.0
Dagana	427	1060	2.5
Gasa	0	0	0.0
Haa	100	351	3.5
Lhuentse	288	903	3.1
Mongar	1253	6894	5.5
Paro	721	1754	2.4
Pemagatshel	427	1362	3.2

Punakha	455	1271	2.8
SamdrupJongkhar	657	3733	5.7
Samtse	753	2967	3.9
Sarpang	1102	4209	3.8
Thimphu	3982	26540	6.7
Trashigang	789	3174	4.0
Trongsa	195	549	2.8
Tsirang	342	1570	4.6
Zhemgang	432	1340	3.1
<b>Total</b>	<b>13324</b>	<b>62958</b>	<b>4.7</b>

#### 24. Number of non-Bhutanese seeking Health care services by agencies (April-June 2012)

<b>Dzongkhag</b>	<b>Government Sector</b>	<b>IMTRAT/DANTAK/GREF</b>	<b>Private Companies</b>
Bumthang	4	2	212
Chukha	79	1172	430
Dagana	2	0	477
Gasa	0	0	0
Haa	2	40	10
Lhuentse	0	0	302
Mongar	17	3	233
Paro	1	105	463
Pemagatshel	4	0	120
Punakha	17	0	306
SamdrupJongkhar	8	251	260
Samtse	80	0	543
Sarpang	58	217	845
Thimphu	113	91	319
Trashigang	53	290	103
Trongsa	3	0	462
Tsirang	23	0	38
Zhemgang	5	0	236
<b>Total</b>	<b>469</b>	<b>2171</b>	<b>5359</b>

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Health Research and Epidemiology Unit would like to solicit reviews and feedbacks for the betterment of the publication. Suggestions, views and constructive criticism are always welcome.

**Any queries may be forwarded to addresses given below**

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