

MONTHLY DISEASE EPIDEMIOLOGY REPORT

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August (Epidemiological Weeks 31-35), 2018

1. Highlights

- 👉 Five AES cases: Three were reported from JDWNRH , one from CRRH and One from MRRH. All five cases were in the age group of 1-11 months .
- 👉 Four cases of Bacterial meningitis , two from JDWNRH , one from Gedu and one from CRRH were reported. All were above the age 15 years.
- 👉 36 suspected measles cases were reported, of those one from Tsirang and one from Paro were found positive .
- 👉 Four laboratory confirmed malaria , all were reported from Sarpang.
- 👉 Total of five diseases outbreak were reported (one ARI from Samtse, AGE outbreak from Trashiyangtse, Gasa , Prison RBP Thimphu and one Malaria from Sarpang Dzongkhag).

2. Status of Notifiable Diseases/Syndromes reported

Among weekly reportable diseases/syndromes, the highest number of cases reported was ARI (19117) followed by AWD (3126), ABD (338) and SARI (283) (Table 1)

Table 1: Number of cases of notifiable diseases/syndromes reported from health centers of 20 Dzongkhags.

DZO	ANT	ABD	AWD	AES	AFP	AHF	AJS	ARI	BMG	DGF	MUM	DIP	FWR	FDP	MAL	PTS	RBH	TTN	TPF	SAR	RKS
BUM	0	16	111	0	0	0	0	482	0	0	0	0	2	0	0	0	0	0	0	0	2
CHU	0	13	215	0	0	0	2	2177	0	0	0	0	0	0	0	0	0	0	19	8	28
DAG	0	9	139	0	0	0	0	1003	0	0	0	0	64	1	0	0	0	0	1	2	5
GAS	0	25	85	0	0	0	0	64	0	0	0	0	0	0	0	0	0	0	0	0	0
HAA	0	1	71	0	0	0	0	344	0	0	0	0	0	0	0	0	0	0	26	0	0
LHU	0	10	55	0	0	0	0	174	0	0	0	0	0	0	0	0	0	0	12	0	0
MON	0	12	107	0	0	0	0	1323	0	0	2	0	0	0	0	0	0	0	0	35	0
PAR	0	27	398	0	0	0	0	1062	0	0	0	0	0	0	0	0	0	0	0	0	0
PEM	0	4	85	0	0	0	0	826	0	0	0	0	6	0	0	0	0	0	3	25	6
PUN	0	30	323	0	0	0	0	359	0	0	0	0	1	0	0	0	0	0	0	18	0
SJK	0	20	137	0	0	0	0	1582	0	0	0	0	2	0	0	0	0	0	3	15	6
SAM	0	10	192	0	0	0	0	2972	0	3	0	0	1	2	0	0	0	0	2	62	11
SAR	0	17	204	0	0	0	0	1269	0	0	0	0	13	0	6	0	0	0	0	54	1
THI	0	26	409	1	0	0	0	1785	3	0	13	0	0	1	0	2	0	0	0	21	1
TRG	0	34	107	0	0	0	0	787	0	0	0	0	0	0	0	0	0	0	68	13	10
TRY	0	21	114	0	0	0	2	709	0	0	0	0	5	18	0	0	0	0	0	1	0
TRO	0	5	54	0	0	0	0	308	0	0	0	0	3	0	0	0	0	0	0	18	0
TSI	0	13	82	0	0	0	0	481	0	0	0	0	13	0	0	0	0	0	0	8	0
WNG	0	29	175	0	0	0	4	797	0	1	1	0	2	1	0	0	0	0	0	2	0
ZHE	0	16	63	0	0	0	0	613	0	0	0	0	1	0	0	0	0	0	1	1	26
Total	0	338	3126	1	0	0	8	19117	3	4	16	0	113	23	6	2	0	0	135	283	96

Abbreviation: ANT: (Anthrax), **ABD** (Acute Bloody Diarrhea), **AWD** (Acute Watery Diarrhea), **AES** (Acute Encephalitis Syndrome), **AFP** (Acute Flaccid Paralysis), **AHF** (Acute Haemorrhagic Fever), **AJS** (Acute Jaundice Syndrome), **ARI** (Acute Respiratory Infection), **BMG** (Bacterial Meningitis), **DGF** (Dengue Fever), **MUM** (Mumps), **DIP** (Diphtheria), **FWR** (Fever with Rash), **FDP** (Food Poisoning), **MAL** (Malaria), **PTS** (Pertussis), **RBH** (Human Rabies), **TTN** (Tetanus), **TPF** (Typhoid/paratyphoid Fever), **SAR** (Severe Acute Respiratory Infection), **RKS** (Rickettsioses).

3. Status of Immediately Notifiable Diseases/Syndromes reported

These diseases are of major public health importance as a single case may lead to an outbreak or widespread transmission and requires an immediate action.

Five cases of Acute Encephalitis were reported during the month of August, of those three were from JDWNRH, one from CRRH and one from MRRH. All five cases were in the age group of 1-11 months. Four cases of Bacterial Meningitis, two from JDWNRH, one from Gedu and one from CRRH were reported. All were above the age 15 years. A total 36 suspected measles cases were reported, of those one from Tsirang and one from Paro were found positive. The highest number suspected measles cases were reported from Sarpang (10) followed by Chukha (3) Wangdue (4) Thimphu (2), Punakha (2) Trongsa (2), and P/gatshel (2). Four laboratories confirmed malaria were reported from Sarpang. (Table 2)

Table 2: Number of cases of Notifiable diseases/syndromes reported by health centers of 20 dzongkhags.

DZO	ANT	AFP	AHF	AVI	AES	BMG	CHO	MAL	MSR	PTS	CRS	HRB	DHF	DIP	TTN
BUM	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
CHU	0	0	0	0	0	1	0	0	3	0	0	0	0	0	0
DAG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HAA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LHU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MON	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
PAR	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0
PEM	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
PUN	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
SJK	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
SAM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
SAR	0	0	0	0	1	0	0	4	10	0	0	0	0	0	0
THI	0	0	0	0	3	2	0	0	2	2	0	0	0	0	0
TRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRO	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
TSI	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
WNG	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0
ZHE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	5	4	0	4	36	2	0	0	0	0	0

Abbreviation: ANT(Anthrax), AFP (Acute Flaccid Paralysis), AHF (Acute Haemorrhagic Fever), AVI (Avian Influenza) AES (Acute Encephalitis Syndrome), BMG (Bacterial Meningitis), CHO (Cholera), DHF (Dengue Hemorrhagic Fever) DIP (Diphtheria), MSR (Measles) MAL (Malaria), PTS (Pertussis), RBH (Human Rabies), CRS (Congenital Rubella Syndrome), TTN (Tetanus neonatal)

4. Status of Events/Outbreaks

Total of five disease outbreaks were reported: Acute Respiratory Infection from Sengdhyen Lower Secondary School, Samtse; Acute Gastroenteritis from Kunzangling Central School Trashiyangtse, Bjishong Central School Gasas and Prison RBP Thimphu; Malaria from Sarpang Dzongkhag.(Table 3).

Table 3: Details of outbreak reported during the month of August 2018

	Acute Respiratory Illness	Acute Gastroenteritis (AGE)	Acute Gastroenteritis (AGE)	Acute Gastroenteritis (AGE)	Malaria
Name of outbreak	Samtse	Trashiyangtse	Gasas	Thimphu	Sarpang
location of outbreak	Sengdhyen L S School	Kunzangling Central School,	Bjishong Central School	Prison RBP	Sisty Village
No of cases	160	47	75	67	4
Date of notification	14/8/2018	15/8/2018	18/8/2018	22/8/2018	29/8/2018
Date of Investigation	14/8/2018	15/8/2018	19/8/2018	22/8/2018	29/8/2018
Any complication/death	Nil	Nil	Nil	Nil	Nil
Cause of Outbreak	Flu B (seasonal)	Salmonella	Shigella Sonnei	Campylobacter	P. Faciparum
Outbreak response by	BHU and DRRT	BHU and DRRT	BHU and DRRT	RCDC	DRRT and VDCP
Last cases of outbreak	16/8/2018	18/8/2018	27/8/2018	23/8/2018	29/8/2018
Laboratory result Clinical samples	Flu B (seasonal)	Salmonela & aeromonas hydrophela	Shigella Sonnei	Campylobacter	P. Faciparum

Status of Notifiable Diseases/Syndromes

Of the total reports received in the system, 73.0% were timely reported, 14.0% were late reported and 13.0 % were not reported.

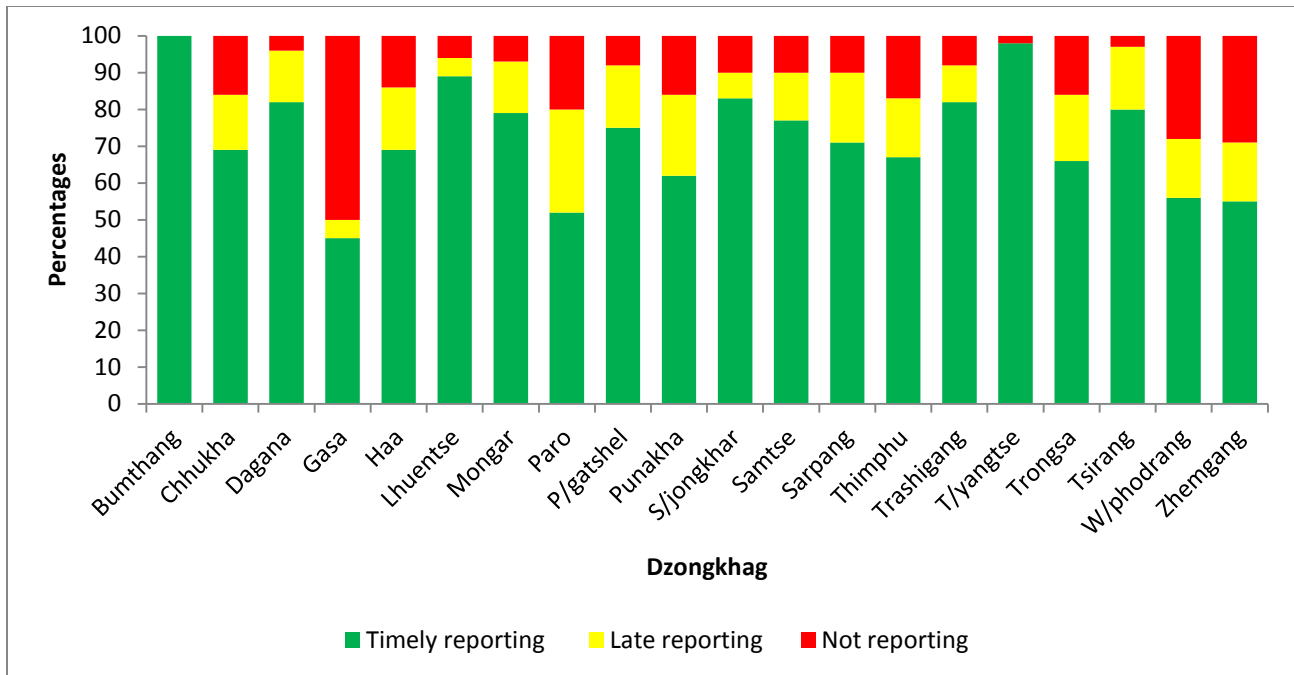


Figure 1: Reporting status by dzongkhags



Alert for potential seasonal disease outbreaks

The three years data shows increase occurrence of diarrheal diseases during the month of June through September. Therefore, all health centers should step up awareness program on prevention and control measures on diarrheal disease.



Alert for malaria and dengue outbreaks

The malaria laboratory confirmed cases reported on immediately reportable diseases are increasing comparing to the previous month. The monsoon season and an increase in the temperature may lead to an increased growth of mosquito population. Therefore, the health centers need to increase the awareness on malaria and dengue and step up the vector surveillance activities accordingly.