

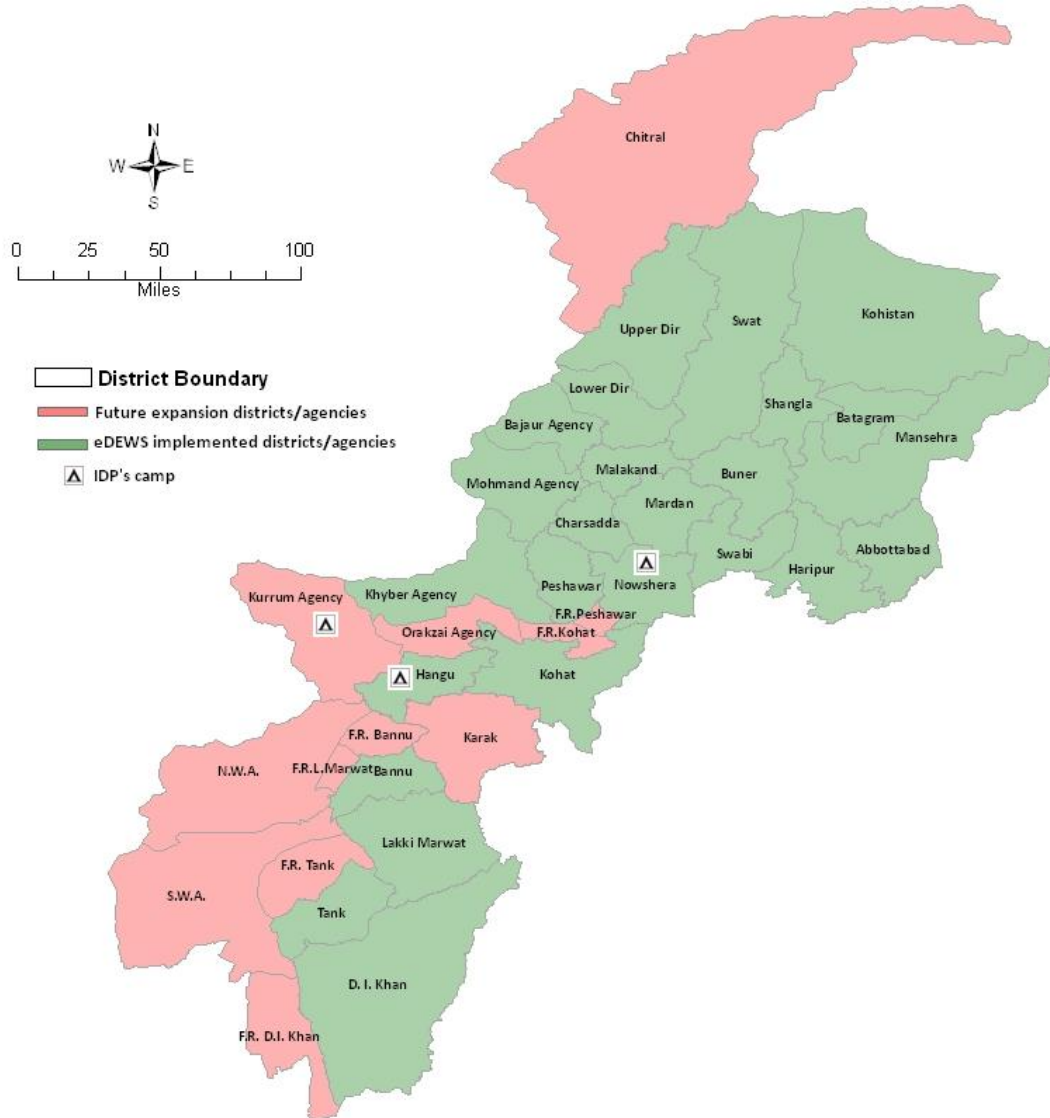


# Weekly **Epidemiological** Bulletin

## Electronic Disease Early Warning System & Response (eDEWS)

in Khyber Pakhtunkhwa and FATA

**Epidemiological Week no. 34 (19 to 25 August, 2012)**



### Priority diseases under surveillance in eDEWS

#### Respiratory Diseases

Acute (upper) respiratory infections

Pneumonia <5 years

Pneumonia > 5 years

Suspected Diphtheria

Suspected Pertussis

#### Gastro Intestinal Diseases

Acute Watery Diarrhea <5 year

Acute Watery Diarrhea > 5 year

Bloody Diarrhea <5 years

Bloody Diarrhea > 5 years

Other Acute Diarrhea < 5 years

Other Acute Diarrhea > 5 years

Suspected Enteric/Typhoid Fever

#### Other Communicable

Suspected Malaria

Suspected Meningitis

Suspected Dengue Fever

Suspected Viral Hemorrhagic Fever

Pyrexia Of Unknown Origin

#### Vaccine Preventable

Suspected Measles

Suspected Acute Viral Hepatitis

Chronic Viral Hepatitis

Neonatal Tetanus

Acute Flaccid Paralysis

#### Skin Disease

Scabies

Cutaneous Leishmaniasis

#### Injuries /Poisoning

Injuries

Snake bite

#### Other unusual diseases

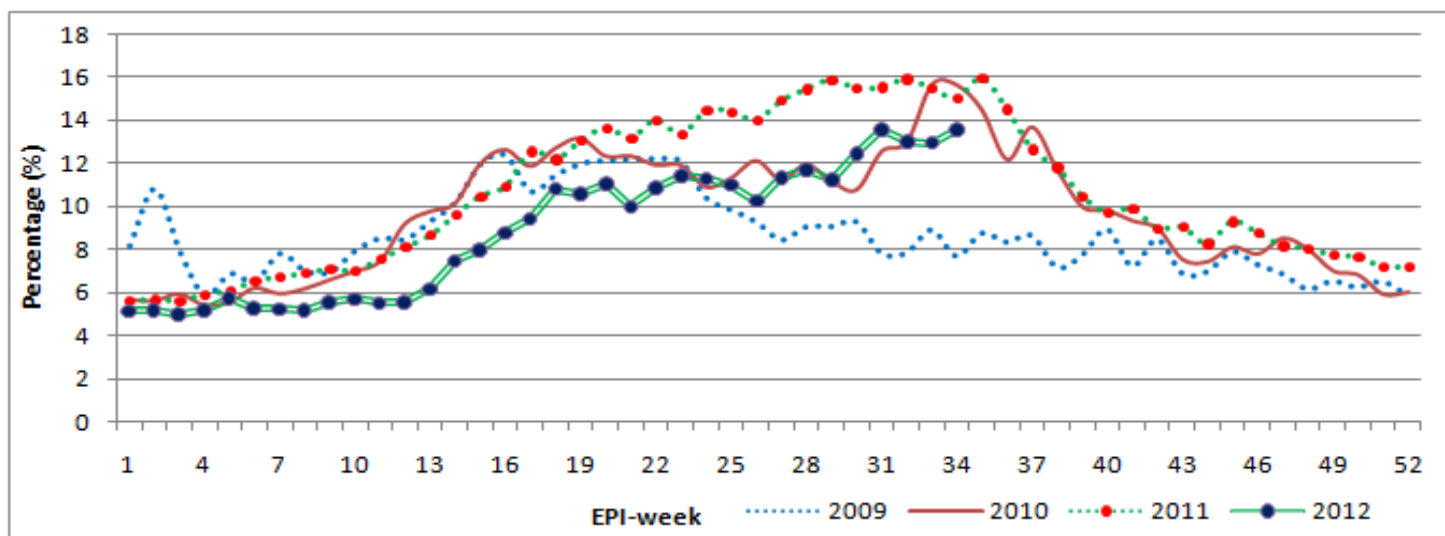
Other unusual diseases

## HIGHLIGHTS

- **18 districts and 3 agencies** provided surveillance data to the eDEWS this week from **487** health facilities.
- A total of **73,862 consultations** were reported through eDEWS of which 15% or 10,879 cases were Acute Upper Respiratory Infection, is still the highest cause of morbidity of total consultations were showing 1% decrease in percentage as compared to week 33.
- Other Acute Diarrhoea shared 13.6% or 10,011 cases of the total consultations showing 0.6% increase in percentage as compared to previous week.
- Pyrexia of Unknown Origin accounted for 6% or 4,350 cases out of total consultations.
- Skin Infection (Skin Inf.) reported at 3% or 2,118 cases and suspected Typhoid Fever comprised only 0.3% or 229 cases out of total consultations.
- A total of **32 alerts** including 1 Malaria (Vivax) outbreak were received. 26 alerts for suspected Measles while 1 each for Acute Watery Diarrhea (AWD), Bloody Diarrhea (BD), Cutaneous Leishmaniasis (CL), Malaria, Mumps and Neonatal Tetanus (NNT) were shared and responded.

## Compiled situation in Khyber Pakhtunkhwa & FATA

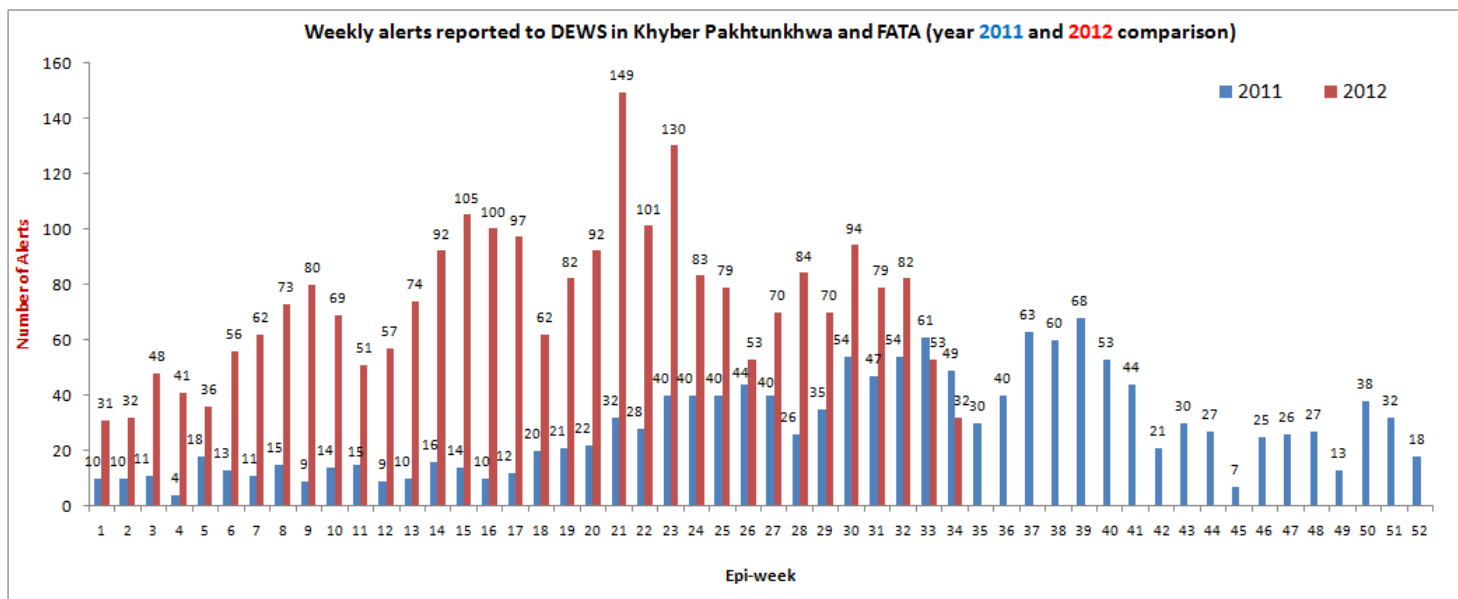
Figure-1: Four years trend of Other Acute Diarrhea (OAD) in Khyber Pakhtunkhwa/FATA (2009, 2010, 2011 and 2012)



The above graph shows the trend of Other Acute Diarrhoea (OAD) cases out of total consultations reported to DEWS in 2009, 2010, 2011 and 2012 up until now. In this week 34, 2012 OAD consultations reported 13.6% or 10,011 cases of total cases and show 0.6% increase in percentage as compared to week 33.

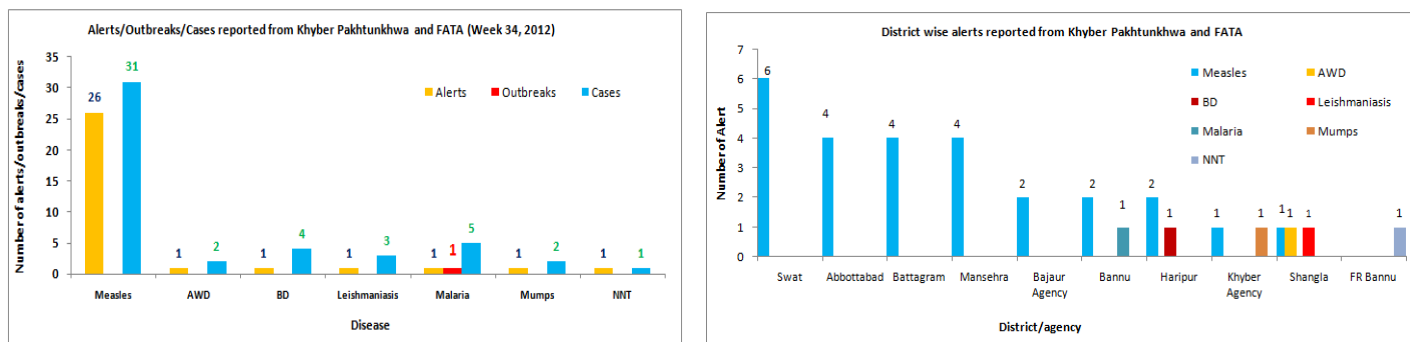
During this week high percentage of OAD consultations were reported from Bajaur 24% followed by district Peshawar 20%, Malakand 19%, Buner 18%, Shangla 17%, Hangu 16%, Swat 16%, Mansehra 16%, Dir Lower 14%, Battagram 14%, Abbottabad 13%, Mohmand 13%, Haripur 12%, Mardan 12%, D.I. Khan 12%, Khyber 12% and Nowshera 11%.

Figure-2: Alerts reported in Khyber Pakhtunkhwa/FATA (year 2011 and 2012 comparison)



The above graph shows the different reported alerts to DEWS from year 2011 and 2012. High number of alerts reported in year 2012 due to more active surveillance and response. A cumulative figure for the current year is **2,504** alerts (**5,822** cases) including of **194** outbreaks were reported. Measles alerts are leading in Khyber Pakhtunkhwa and FATA with **1,890** alerts (**3,259** cases) including **124** outbreaks. Followed by C. Leishmaniasis **274** alerts (**953** cases) including **27** outbreaks, Neonatal Tetanus **105** alerts (**107** cases), AWD **62** alerts (**452** cases) including 9 outbreak, Typhoid Fever **39** alerts (**135** cases) including **11** outbreaks, Diphtheria **19** alerts (**19** cases), Bloody diarrhoea **17** alerts (**88** cases) including **5** outbreaks, Pertussis **15** alerts (**30** cases) including **2** outbreaks, suspected Acute Viral Hepatitis **14** alerts (**180** cases) including **6** outbreaks, AFP **12** alerts (**12** cases), Dengue Fever **9** alerts (**9** cases), Dog Bite **9** alerts (**9** cases), Scabies **7** alerts (**320** cases) including **5** outbreaks, Falciparum Malaria **5** alerts (**9** cases) including **2** outbreaks, H1N1 **5** alerts (**11** cases) including **1** outbreak, Tetanus **5** alerts (**5** cases), CCHF **4** alerts (**4** cases), Other Acute Diarrhoea **4** alerts (195 cases) including **1** outbreak, Chickenpox **3** alerts (**8** cases), Dengue Hemorrhagic Fever **1** alert (**4** cases), Rabies **1** alerts (**9** cases) including **1** outbreak, Mumps **1** alert (**1** case), suspected DHF/CCHF **1** alert (**1** case), Unexplained Fever **1** alert (**1** case) and Viral Encephalitis **1** alert (**1** case) were shared.

**Figure-3: Number of alerts and alert cases reported in Khyber Pakhtunkhwa/FATA (Week 34, 2012)**

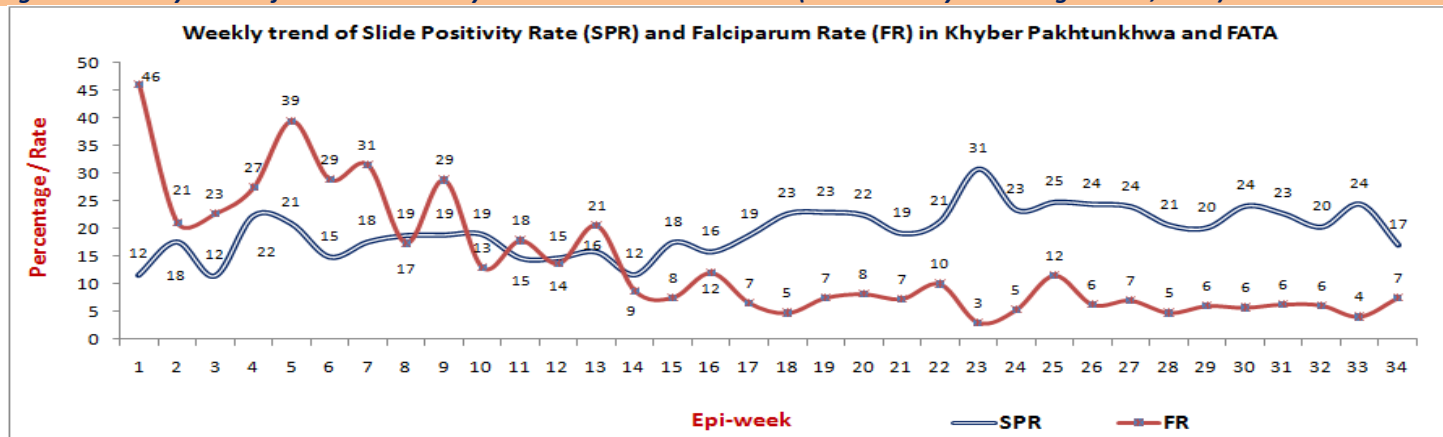


The above left side graph shows different alerts and their cases reported in KP/FATA and right side graph shows different alerts shared by district wise in week 34, 2012. In this week a total of 32 alerts (48 cases) including 1 Malaria (Vivax) outbreak was reported and responded. Highest number of alerts reported from district Swat 6 for suspected Measles followed by Abbottabad 4 for suspected Measles, Battagram 4 for suspected Measles, Mansehra 4 for suspected Measles, Bannu 3 alerts including 2 for suspected Measles and 1 for Malaria, Haripur 3 alerts including 2 for suspected Measles and 1 for Bloody Diarrhea, Shangla 3 alerts including 1 each for suspected Measles, Acute Watery Diarrhea (AWD) and Cutaneous Leishmaniasis (CL), Bajaur 2 for suspected Measles, Khyber 2 alerts including 1 each for suspected Measles and Mumps and FR Bannu 1 for Neonatal Tetanus (NNT) were reported and responded.

❖ **1 outbreak of Malaria (Vivax) was reported in this week.**

- ✓ 1 outbreak of Malaria (Vivax) was shared from district Bannu
  - A total of 5 cases of Malaria were reported from village Ghari Mir Alam. Initially two suspected cases of malaria were reported from women and children hospital. On field investigation 3 more cases were found. All cases were positive for malaria vivax. Health session conducted in the area about how to prevent the spread of disease by taking simple measures. Data shared with authorities of malaria control program.

**Figure-4: Weekly trend of SPR and FR in Khyber Pakhtunkhwa and FATA (From January 1<sup>st</sup> to August 25<sup>th</sup>, 2012):-**



A cumulative figure of RDT examined for the current year is 76,828 slides including 15,986 slides positive i.e. 21% accounted for Slide Positivity Rate (SPR). Out of total positive, Falciparum Rate (FR) was accounted 9.4% (1,501 slides). Similarly Vivax 91% (14,485 slides) and Mixed 4% (575 slides) were reported.

For the current week total 1,658 slides were tested for Malaria. Out of which SPR is accounted 17% (283 slides) including FR 7.4% (21 slides), Vivax 93% (262 slides) and Mixed 2% (5 slides).

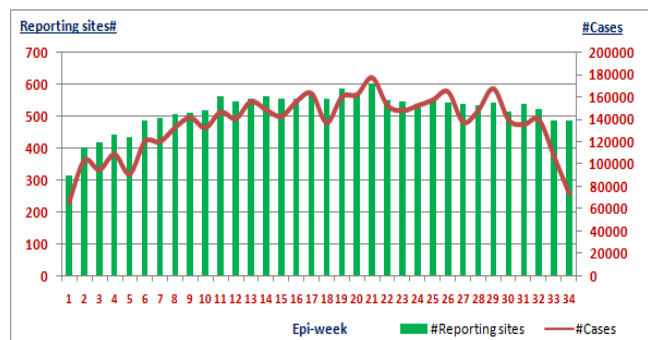
**Table-1: Leading causes of seeking health care in flood affected districts, compiled weekly reports**

Disease name	Week-31	Week-32	Week-33	Week-34	Total Consultations (1 <sup>st</sup> Jan to 25 <sup>th</sup> Aug, 2012)
Acute Diarrhoea	18,378 (14%)	18,144 (13%)	13,861 (13%)	10,011 (13.6%)	416,534 (9%)
Bloody Diarrhoea	1,135 (1%)	1,154 (1%)	830 (1%)	752 (1%)	35,425 (1%)
Suspected Malaria	3,233 (2.4%)	3,745 (2.7%)	2,629 (2.5%)	1,699 (2.5%)	88,775 (2%)
Skin Diseases	4,117 (3%)	3,804 (3%)	2,826 (3%)	2,118 (3%)	124,841 (3%)
Pyrexia of Unknown Origin	8,333 (6%)	8,282 (6%)	5,661 (5.3%)	4,350 (6%)	228,771 (5%)
Acute Respiratory Infection	20,885 (15.4%)	21,047 (15.1%)	16,612 (15.5%)	10,879 (15%)	982,023 (21.2%)
<b>Total Consultations</b>	<b>135,312</b>	<b>139,481</b>	<b>107,009</b>	<b>73,862</b>	<b>4,620,831</b>

The above table shows compiled communicable diseases cases from weekly reports and proportional morbidity through eDEWS reported. Since January 1, 2012, approximately 4,620,831 patient consultations have been reported to the eDEWS from Khyber Pukhtunkhwa province and Federal Administered Tribal Areas (FATA).

In this week 34, 2012 (August 19 to 25, 2012) reports were received from 487 health centres and the major causes for seeking health care by the communities in almost all of the regions were diarrhoeal diseases 10,011 cases or 13.6%, acute respiratory infections 10,879 cases or 15%, skin diseases 2,118 cases or 3% and suspected malaria 1,699 cases or 2.5%.

**Figure-5: Total number of HFs reported and consultations (Week no.1 to 34, 2012)**



**Figure-6: Leading communicable diseases percentage trend in Khyber Pakhtunkhwa and FATA (Week no.1 to 34, 2012)**

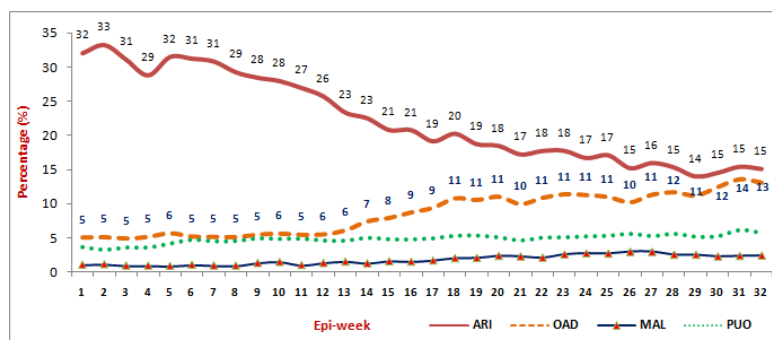


Figure 4 shows the number of health facilities and total number of consultations reported. Consultations show decreased since week 33 due to Eid-ul-Fitr holidays. Figure 5 shows the weekly percentage trend of ARI, Other Acute Diarrhoea, suspected Malaria and Pyrexia of Unknown Origin in Khyber Pakhtunkhwa and FATA from week 1 to 34, 2012. ARI percentage is showing fluctuation since week 29 and OAD showing 0.6% increase in percentage in week 34 as compared to previous week.

**Table-2: Respiratory Diseases situation in Khyber Pakhtunkhwa and FATA**

Respiratory Diseases	Week-33	Week-34
Upper Respiratory Infection	16,042	10,443
Pneumonia <5	294	236
Pneumonia >5	276	200

**Figure-7:**

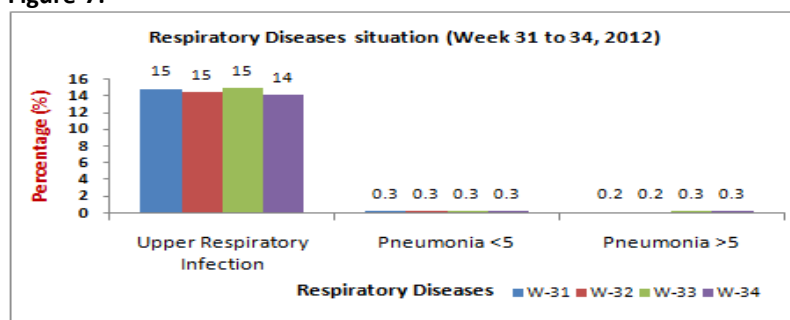


Table 2 shows the last two weeks Acute Respiratory Tract Infection (Upper Respiratory Tract Infection and Lower Respiratory Tract Infection (Pneumonia)) consultations comparison and figure 5 shows the last four weeks percentage situation of ARI.

**Table-3: Gastro Intestinal Diseases situation in Khyber Pakhtunkhwa and FATA**

Gastro Intestinal Diseases	Week-33	Week-34
Bloody Diarrhea <5	388	279
Bloody Diarrhea >5	442	473
Other Acute Diarrhea <5	7,312	5,017
Other Acute Diarrhea >5	6,549	4,994
Suspected Typhoid Fever	268	229

**Figure-8:**

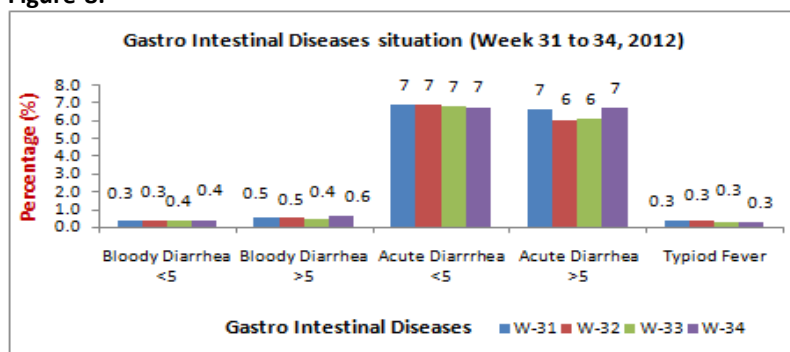
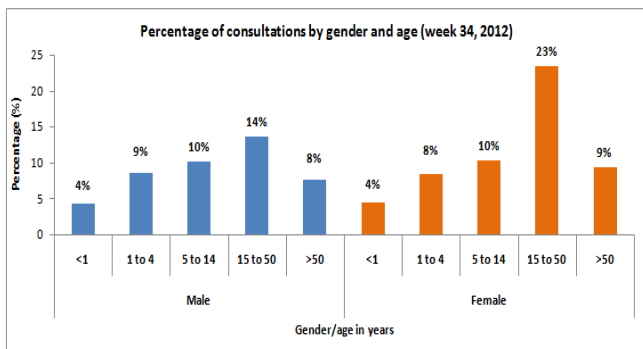


Table 3 shows the last two weeks cases of Gastro Intestinal Diseases and figure 6 shows the Gastro Intestinal Diseases percentage of last four weeks.

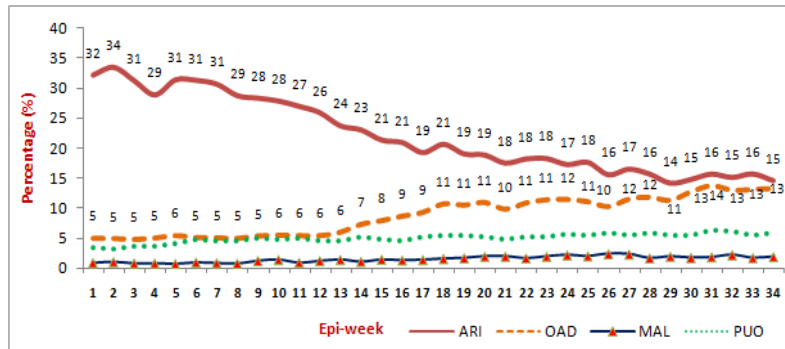


## Province Khyber Pakhtunkhwa:

**Figure-9: Percentage of consultations by gender and age wise**

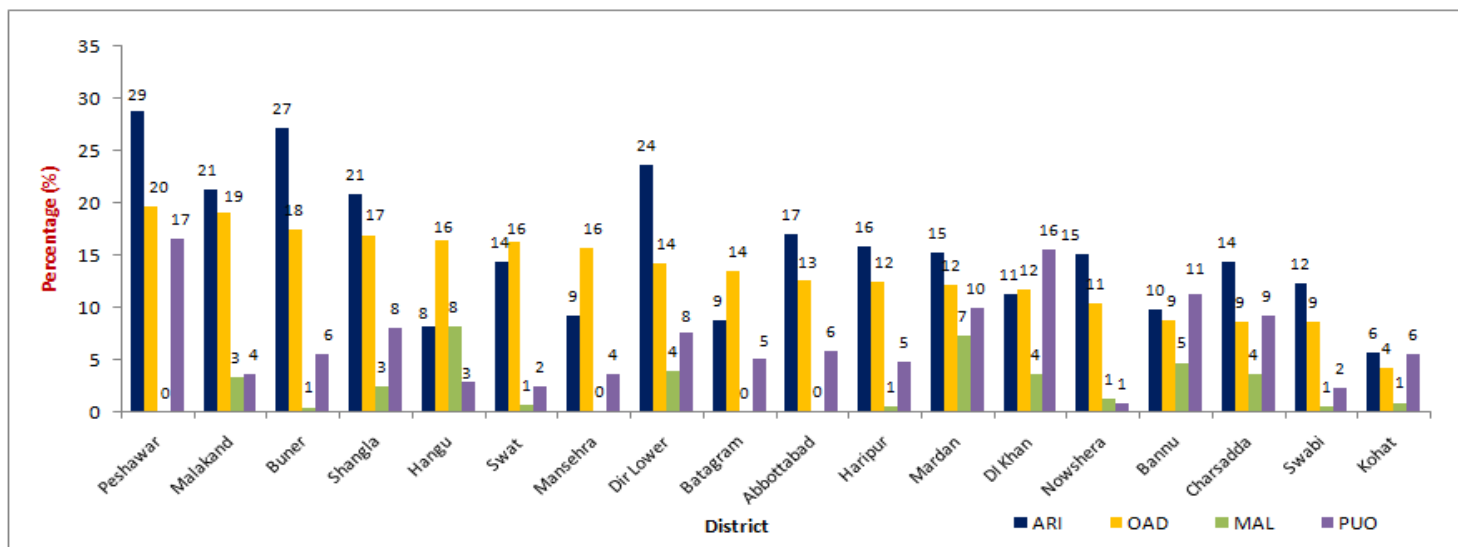


**Figure-10: Weekly diseases (ARI, OAD, MAL and PUO) percentage trend**



- Figure 8 shows percentage of consultations by gender and age wise in health events in over all diseases, male to female patients' ratio reported was **44%** or **30,353** cases and **56%** or **38,413** cases respectively.
- Figure 9 shows weekly percentage trend of ARI, OAD, MAL and PUO from week 1 to 34, 2012.
- This week 18 districts reported to eDEWS from 443 health facilities with a total of **68,766** patients' consultations.
- Acute Respiratory Tract Infection 10,094 cases reported were showing 1% decrease in percentage as compared to week 33 patients' visits and accounted for 15% of the total consultations.
- Other Acute Diarrhea cases 9,183 or 13.4% showing 0.1% increase in percentage as compared to previous week and suspected Malaria 1,319 cases or 2% were reported.
- Pyrexia of Unknown Origin cases were shared 4,126 or 6%.
- Suspected Typhoid Fever (TF) cases 218 or 0.3% and Scabies cases 1,982 or 3% were reported.

**Figure-11: ARI, OAD, MAL and PUO percentage situation of Khyber Pakhtunkhwa district wise in week 34, 2012**



The above figure shows ARI, OAD, MAL and PUO percentage situation district wise in week 34, 2012. During this week high percentage of OAD consultations were reported from district Peshawar 20% (477 cases) followed by district Malakand 19% (853 cases), Buner 18% (616 cases), Shangla 17% (351 cases), Hangu 16 (201 cases), Swat 16% (1,307 cases), Mansehra 16% (1,409 cases), Dir Lower 14% (165 cases), Battagram 14% (599 cases), Abottabad 13% (317 cases), Haripur 12% (589 cases), Mardan 12% (574 cases), D.I. Khan 12% (286 cases) and Nowshera 11% (353 cases). Similarly high percentage of ARI cases were reported from district Peshawar 29% (699 cases), Buner 27% (956 cases), Dir Lower 24% (274 cases), Malakand 21% (950 cases), Shangla 21% (435 cases), Abottabad 17% (425 cases), Haripur 16% (750 cases), Mardan 15% (722 cases) and Nowshera 15% (510 cases). High percentages of suspected Malaria were reported from district Hangu 8% (101 cases), Mardan 7% (349 cases), Bannu 5% (70 cases), Dir Lower 4% (45 cases), D.I. Khan 4% (91 cases) and Charsadda 4% (234 cases). High percentage of Pyrexia of Unknown Origin (PUO) consultations were reported from district Peshawar 17% (401 cases), D.I. Khan 16% (381 cases), Bannu 11% (166 cases), Mardan 10% (476 cases), Charsadda 9% (585 cases), Shangla 8% (868 cases) and Dir Lower 8% (89 cases).

Table-4: Malaria Slides/RDT examination report of Khyber Pakhtunkhwa district wise in week 34, 2012

District	Slides / RDT examined	P. Falciparum	P. Vivax	P. Mixed	Total +Ve	Slide Positivity Rate (SPR)	Falciparum Rate (FR)	Vivax Rate	Mixed Rate
Bannu	42	0	9	1	10	23.8	10.0	90.0	10.0
Charsadda	181	0	37	2	39	21.5	5.1	94.9	5.1
DI Khan	100	2	28	0	30	30.0	6.7	93.3	0.0
Dir Lower	33	0	11	0	11	33.3	0.0	100.0	0.0
Hangu	70	0	23	0	23	32.9	0.0	100.0	0.0
Haripur	2	0	0	0	0	0.0	0.0	0.0	0.0
Kohat	192	4	29	0	33	17.2	12.1	87.9	0.0
Malakand	74	0	7	0	7	9.5	0.0	100.0	0.0
Mansehra	13	0	2	0	2	15.4	0.0	100.0	0.0
Mardan	436	0	24	2	26	6.0	7.7	92.3	7.7
Nowshera	41	0	15	0	15	36.6	0.0	100.0	0.0
Shangla	46	0	11	0	11	23.9	0.0	100.0	0.0
Swat	35	0	0	0	0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>1,265</b>	<b>6</b>	<b>196</b>	<b>5</b>	<b>207</b>	<b>16.4</b>	<b>5.3</b>	<b>94.7</b>	<b>2.4</b>

A total of **1,265** slides were tested for Malaria in this week. Out of which **207** slides were positive and accounted for SPR is **16.4%** including **5.3%** (11 slides) for Falciparum Ratio, **94.7%** (196 slides) for Vivax ratio and **2.4%** (5 slides) for Mixed ratio.

### Current week's Alert/Outbreak in Khyber Pakhtunkhwa:

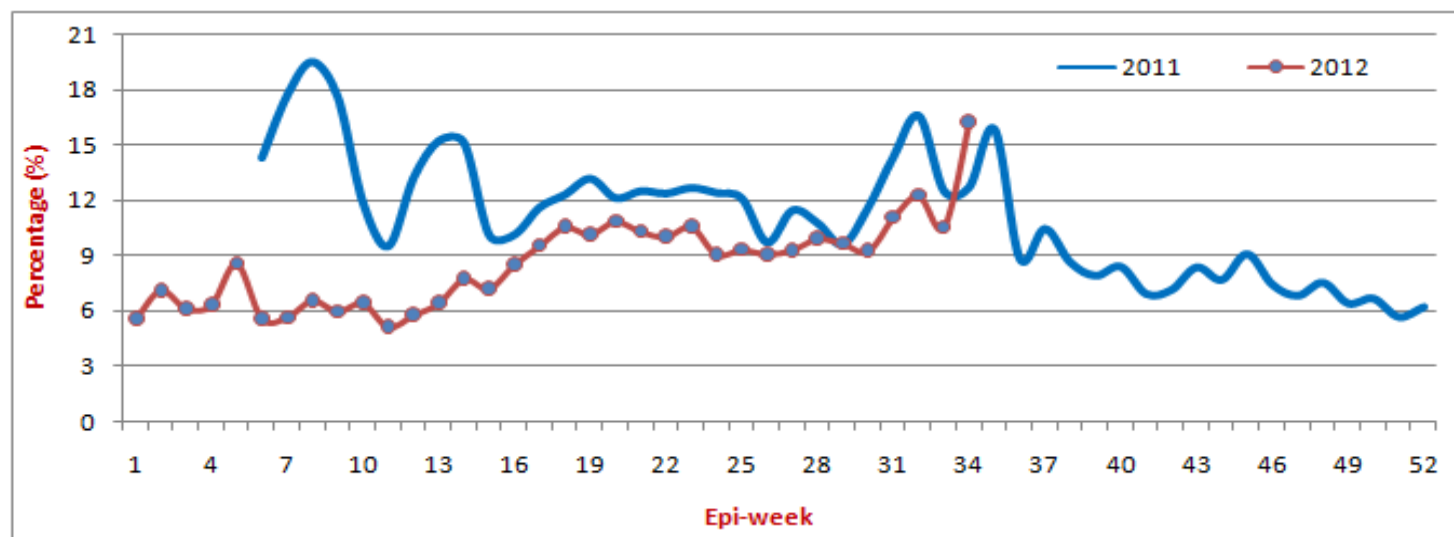
- A total of 27 alerts including 1 Malaria (Vivax) outbreak were received. 23 alerts for suspected Measles while 1 each for Acute Watery Diarrhea (AWD), Bloody Diarrhea (BD), Cutaneous Leishmaniasis (CL) and Malaria were shared and responded.

S. No	Date Investigated	Suspected Disease	District	Location	<5 M	>5 M	<5 F	>5 F	Sample	Positive	Cases	Death
1	22-Aug-12	Malaria (Vivax)	Bannu	Village Ghari Mir Alam UC Mandan	2	2	1	0	0	r	5	0
2	23-Aug-12	Measles	Bannu	Village and UC Haved	0	0	1	0	0	r	1	0
3	23-Aug-12	Measles	Bannu	Village Landi Daag UC Haved	0	0	1	0	0	r	1	0
4	22-Aug-12	Measles	Swat	Village Barcham Islampur, UC Islampur, Tehsil Babuzai	0	0	1	0	1	r	1	0
5	22-Aug-12	Measles	Swat	Village Gogdara, UC Tindodag, Tehsil Babuzai	0	0	1	0	1	r	1	0
6	23-Aug-12	Measles	Swat	Village Baibaba Jebagay, UC Shamoza, Tehsil Barikot	1	0	0	0	1	r	1	0
7	23-Aug-12	Measles	Swat	Village Bar Kale near Bilal Masjid, UC Saidu Sharif, Tehsil Babuzai	1	0	0	0	1	r	1	0
8	23-Aug-12	Measles	Swat	Village Kotlai near Army Check post, UC Koz Aba Khel, Tehsil Kabal	0	0	1	0	1	r	1	0
9	24-Aug-12	Measles	Swat	Village Malak Abad Shamoza, UC Shamoza, Tehsil Barikot	1	0	0	0	1	r	1	0
10	23-Aug-12	Measles	Abbottabad	Khola Kehal	1	0	0	0	1	r	1	0
11	23-Aug-12	Measles	Abbottabad	Mohalla Commette, Havallian	1	0	0	0	0	r	1	0
12	24-Aug-12	Measles	Abbottabad	Abassia Coloney, Nawansher	1	0	0	0	0	r	1	0
13	24-Aug-12	Measles	Abbottabad	CSD, cant	0	0	0	0	0	r	1	0
14	22-Aug-12	Measles	Battagram	Village Tamai, UC Ajmaira	1	0	1	0	0	r	2	0
15	22-Aug-12	Measles	Battagram	Village Ajmaira, UC Ajmaira	1	0	0	0	0	r	1	0
16	23-Aug-12	Measles	Battagram	Village Houtal, UC Peshoora	1	0	0	0	0	r	1	0
17	23-Aug-12	Measles	Battagram	Village Paimal, UC Paimal	0	0	1	0	0	r	1	0
18	20-Aug-12	Measles	Shangla	Village Damorai	1	0	0	0	0	r	1	0

19	22-Aug-12	Leishmaniasis	Shangla	Village Kuz bat kot	0	2	1	0	0	r	3	0
20	24-Aug-12	AWD	Shangla	Village Lelonai	0	2	0	0	2	r	2	0
21	18-Aug-12	BD	Haripur	Village Halli, UC Barkot	0	1	0	3	0	r	4	0
22	23-Aug-12	Measles	Haripur	Muhallah Eidgah, Haripur city	0	1	0	0	0	r	1	0
23	22-Aug-12	Measles	Haripur	Khalabut Township	0	0	1	0	0	r	1	0
24	22-Aug-12	Measles	Mansehra	Ghazi kot	0	0	1	0	0	r	1	0
25	24-Aug-12	Measles	Mansehra	Sarain Dab Gran near Bedra	0	0	1	0	0	r	1	0
26	24-Aug-12	Measles	Mansehra	Dara # 2	1	0	0	0	0	r	1	0
27	24-Aug-12	Measles	Mansehra	Battal City UC Battal	0	1	0	0	0	r	1	0

### Federal Administered Tribal Areas (FATA):

Figure-12: Two years trend of Other Acute Diarrhoea in FATA



DEWS was started in FATA three agencies (Bajaur, Khyber, Mohmand) since February, 2011 during FATA IDPs crisis. Figure 11 shows 2 years weekly percentage trend of OAD percentage trend. In week 34 OAD 828 cases or 16.2% were shared showing 6% increase in percentage as compared to previous week.

Figure-13: Percentage of consultations by gender and age wise

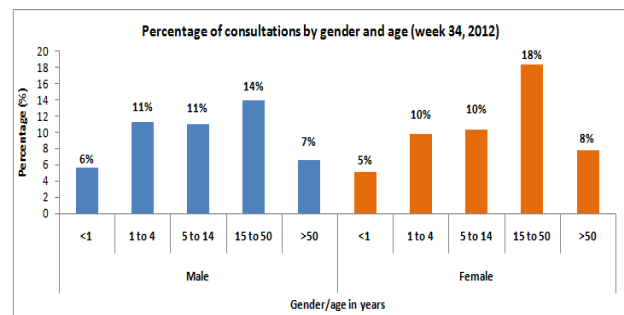
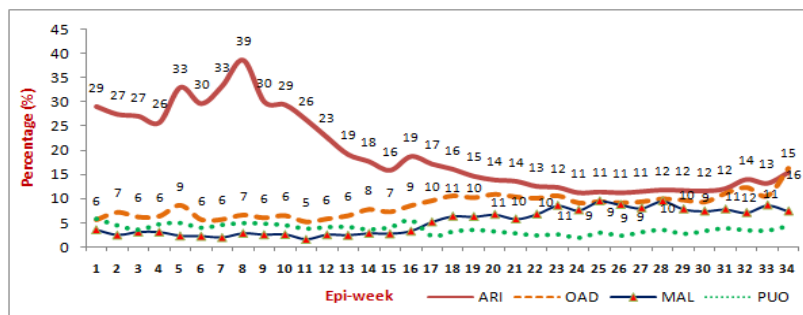


Figure-14: Weekly diseases (ARI, OAD, MAL and PUO) percentage trend

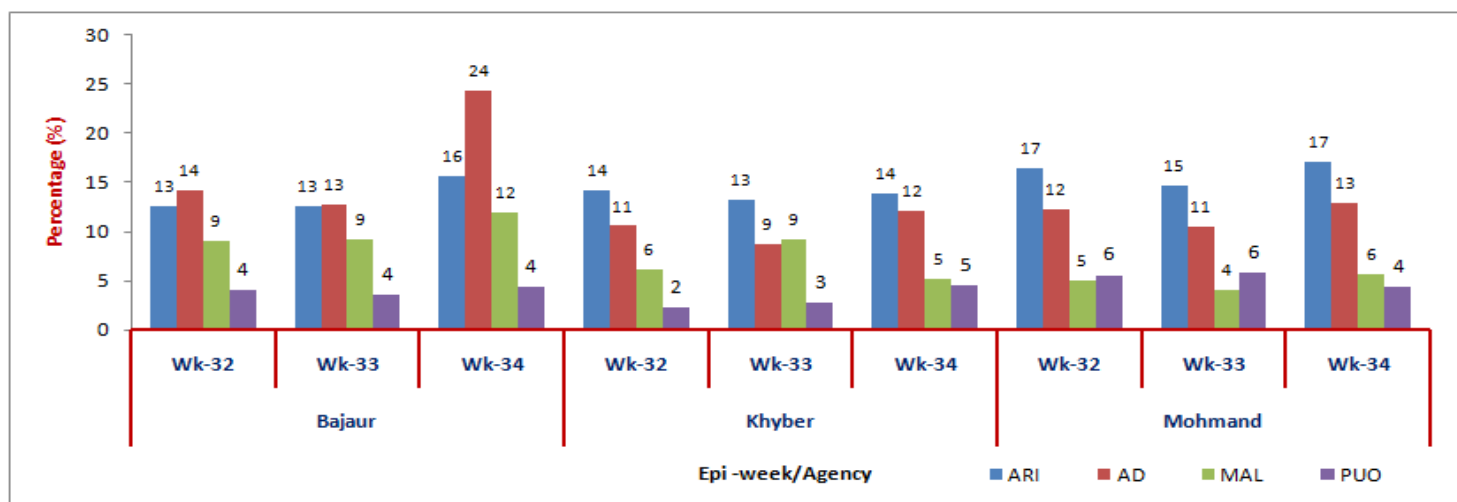


- Figure 12 shows percentage of consultations by gender and age wise in health events in over all diseases, male to female patients' ratio reported was 48% or 2,473 cases and 52% or 2,623 cases respectively
- Figure 13 shows weekly percentage trend of ARI, OAD, MAL and PUO from week 1 to 34, 2012.
- This week, 44 health facilities reported from 3 agencies to eDEWS with a total of 5,096 patients' consultations.
- Acute Respiratory Tract Infection (ARI) 785 cases reported were showing 2.3% increase in percentage as compared to week 33 patients' visits and accounted for 15.4% of the total consultations.
- Other Acute Diarrhea (OAD) 828 cases or 16.2% were showing 6% increase in percentage as compared to week 33

and suspected Malaria (Mal) 380 cases or 7.5% were shared.

- Pyrexia of Unknown Origin (PUO) shared 224 cases or 4.4% which shows 1.2% decrease in percentage as compared to previous week, suspected Typhoid Fever (TF) 11 cases or 0.2% and Scabies 136 cases or 3% were reported.

Figure-15: ARI,OAD, MAL and PUO percentage situation of Federal Administered Treaty Agency (FATA) in last three weeks



The above figure 14 shows ARI, OAD, MAL and PUO percentage situation in FATA three agencies. During week 34, 2012 high percentage of OAD consultations were reported as compared to other diseases. In this week high percentage of Other Acute Diarrhoea consultations were reported from Bajaur as compared to Mohmand and Khyber agency. Also high percentage of ARI consultations were reported from Mohmand as compared to Khyber and Bajaur agency. In this week OAD 24% or 391 cases, 13% or 202 cases and 12% or 235 cases were shared respectively from Bajaur, Mohmand and Khyber agencies. Similarly ARI 17% or 267 cases, 16% or 251 cases and 14% or 267 cases were shared respectively from Mohmand, Bajaur and Khyber agencies. Pyrexia Unknown Origin (PUO) cases percentage were reported 5% or 87 cases, 4.4% or 70 cases and 4.3% or 67 cases respectively from Khyber, Bajaur and Mohmand agencies. Suspected Malaria were shared 12% or 191 cases from Bajaur, 6% or 89 cases from Mohmand and 5% or 100 cases from Khyber agency.

Table-5: Malaria Slides/RDT examination report of FATA agency wise in week 34, 2012

Agency	Slides / RDT examined	P. Falciparum	P. Vivax	P. Mixed	Total +Ve	Slide Positivity Rate (SPR)	Falciparum Rate (FR)	Vivax Rate	Mixed Rate
Bajaur	248	4	30	0	34	13.7	11.8	88.2	0.0
Khyber	60	0	7	0	7	11.7	0.0	100.0	0.0
Mohmand	85	6	29	0	35	41.2	17.1	82.9	0.0
<b>Total</b>	<b>393</b>	<b>10</b>	<b>66</b>	<b>0</b>	<b>76</b>	<b>19.3</b>	<b>13.2</b>	<b>86.8</b>	<b>0.0</b>

A total of 393 slides were examined for Malaria in this week. Out of which 76 slides were positive and accounted for SPR is 19.3% including 13.2% (10 slides) for Falciparum Ratio, 86.8% (66 slides) for Vivax and 0% for Mixed.

### Current week's Alert/Outbreak in FATA:

- A total of 5 alerts' cases (3 for suspected Measles while 1 each for Neonatal Tetanus (NNT) and Mumps) were reported and responded in this week.

S. No.	Date Investigated	Suspected Disease	Agency	Location	<5 M	>5 M	<5 F	>5 F	Sample	Positive	Cases	Death
1	22-Aug-12	NNT	FR Bannu	Village Safri Umarzai	0	0	1	0	0	r	1	0
2	24-Aug-12	Measles	Bajaur Agency	Village Bandi baba, Nawagai, Tehsil Nawagai	0	0	1	0	0	r	1	0
3	24-Aug-12	Measles	Bajaur Agency	village Ambar, Tehsil Ambar of Mohmand Agency	1	0	0	0	0	r	1	0
4	26-Aug-12	Measles	Khyber Agency	Kam Shalman, Tehsil Landikotal	2	1	2	0	0	r	5	0
5	26-Aug-12	Mumps	Khyber Agency	Torkham, Tehsil Landikotal	1	0	1	0	0	r	2	0