

Epidemiological Week No. 49 (1- 7 Dec)

December 26/ Vol. 107/ DEWS 2007-49

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Abbaspur: distribution of soaps during the outbreak of AJS and Chlorination of the main water source tank in village Tangari
Picture credit: Amir



Highlights

- There were 214 cases of bloody diarrhoea reported in this week 49.
- This week Malaria cases decreased by 7% from last week 48 (W48=265 & W49=247)
- Acute diarrhoea cases decreased by 12% from last week 48 (W48=5,010 & W49= 4.388)
- In week 49, there were no suspected cases of measles reported from any district.
- There were 3,320 cases of scabies, and 4,038 cases of unexplained fever reported in week 49, with no associated deaths. There were no cases of hemorrhagic fever, meningitis, or neonatal tetanus.

The Weekly Morbidity and Mortality Report (WMMR) is published by the Ministry of Health of Pakistan (MOH) and the World Health Organization (WHO). The WMMR is built on surveillance data that health service providers and NGOs transmit on a weekly basis from health facilities and hospitals in those areas affected by the earthquake that struck Pakistan on 8 October 2005.

The WMMR objectives are to monitor the trend of health conditions over a period of time and provide vital information to all health partners. The WMMR is only a snapshot of the health conditions in those facilities where events are registered and data collected and does not necessarily reflect the situation from other health facilities.

The WMMR is a publication that has been developed for emergencies and previously used in other areas such as the Darfur Crisis.

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Reporting Units

The total number of reporting sites for the DEWS in the earthquake affected areas remains 335. 305 (91%) sent their surveillance data on time during the epidemiological week 49 (1-7 Dec 2007). See Table 1 for summary statistics.

Table 1. Reported health facilities by district, Earthquake Affected Areas, Pakistan, 10 Nov to 7 Dec 2007.

Area	Population	Reporting Health Facilities			
		10-16 Nov Week-46	17-23 Nov Week-47	24-30 Nov Week-48	1-7 Dec Week-49
Bagh	452,532	40	39	37	40
Battagram	592,256	25	24	24	36
Mansehra	1,154,804	70	68	68	69
Muzaffarabad	770,000	74	74	78	78
Neelum	184,000	8	15	14	15
Poonch	633,712	67	66	64	67
Total	3,727,668	284(85%)	286(85%)	285(85%)	305(91%)

Total number of consultations

The total number of units, reporting increased by 7% this week (from 285 units last week to 305 units this week); the total number of consultations reported through DEWS decreased from 78,532 last week to 67,578 this week. The weekly trend of reporting units participating in the DEWS and the number of consultations is shown in figure 1.

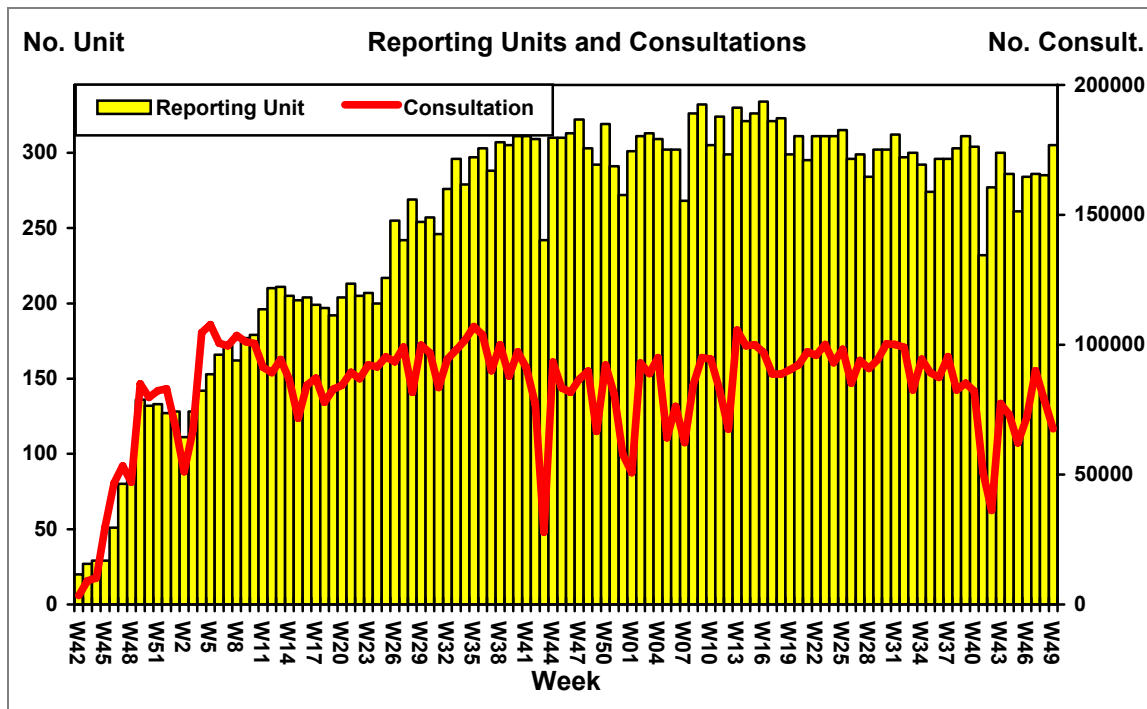


Figure 1. Weekly trend of reporting units and total number of consultations, Earthquake Affected Areas, Pakistan, 15 October 2005 - 7 Dec 2007.

DEWS Data, Epidemiological Week No. 49, 2007

During week 49 (1 to 7 Dec, 2007), **67,578** consultations were reported through DEWS system. Consultations in patients under five made up **20%** of the total; consultations in children (five to fourteen years) made up **20%**, in adults fifteen to forty-four **42%** and **18%** in adults forty-five and over. Rates of upper respiratory tract infections (URTI) were higher in children (both age groups under fifteen) than in adults, though lower respiratory infections (LRTI) were only higher in children than in adults. Acute diarrhoea (AD) had the highest rate in children under five (13%) and the lowest in adults of both age groups. Scabies had a similar rate across all age groups (range 4 – 6%). All other diseases under surveillance not shown in the charts accounted for less than one percent of all consultations. See Figure 2.

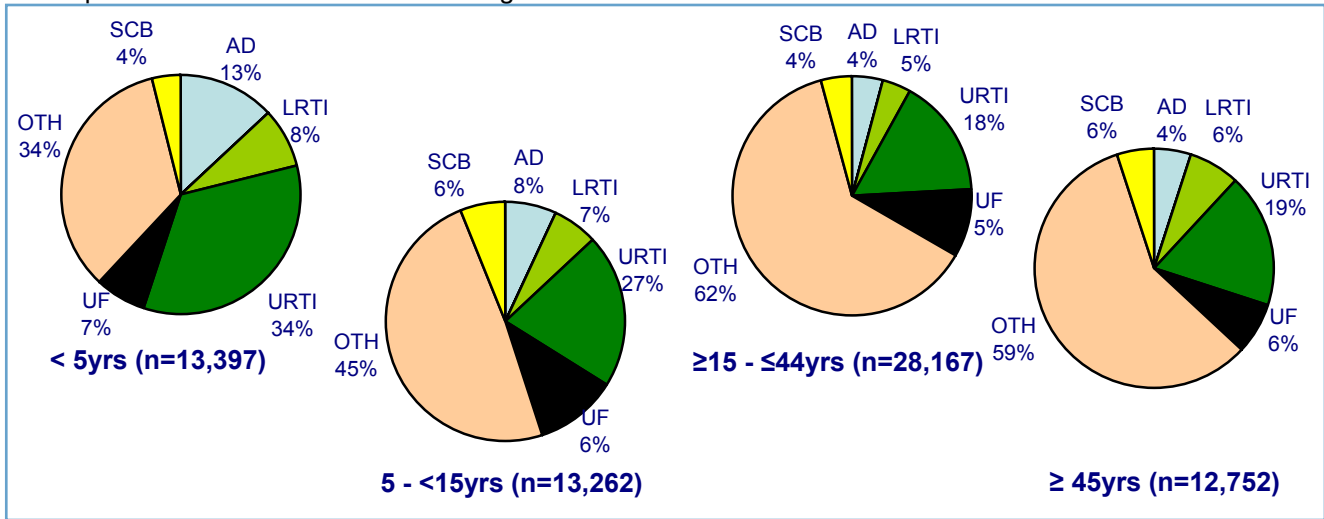


Figure 2. Proportion of primary causes for all reported cases, Earthquake Affected Areas, Pakistan, 1 – 7 Dec 2007. *OTH includes all other reportable conditions, plus all other consultations for conditions not under surveillance

During week 49 (1 to 7 Dec, 2007), **67,578** consultations were reported through DEWS, out of which 46% (30,934) of consultations were in male patients and 54% (36,644) were in female patients. The distribution of consultations by disease and sex are very similar. In all ages and both sexes the most common reason for consultation in the diseases under surveillance was upper respiratory tract infection (URTI) at 23% (15,730) of consultations. Acute diarrhoea was the next most common disease under surveillance to be reported, at 6% of consultations. See Figure 3.

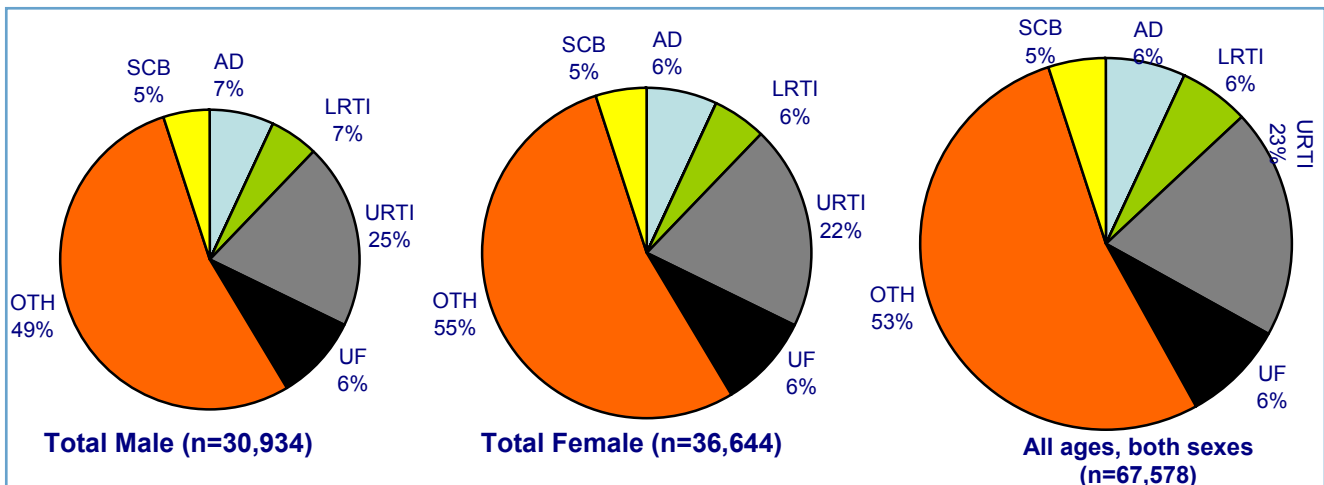


Figure 3. Proportion of primary causes for all reported cases, Earthquake Affected Areas, Pakistan, 1 – 7 Dec 2007. *OTH includes all other reportable conditions, plus all other consultations for conditions not under surveillance

Week No. 49, 2007: Consultations by sex

In week 49, there were 4,388 acute diarrhoea cases reported, out of which 2,300 cases were from male and 2,088 cases from female consultations. In the week 46 to 48, the rate of acute diarrhoea has decrease in both sexes, but in week 49 cases were increased in male consultations. The rate in males has been consistently higher than in females. See Figure 4.

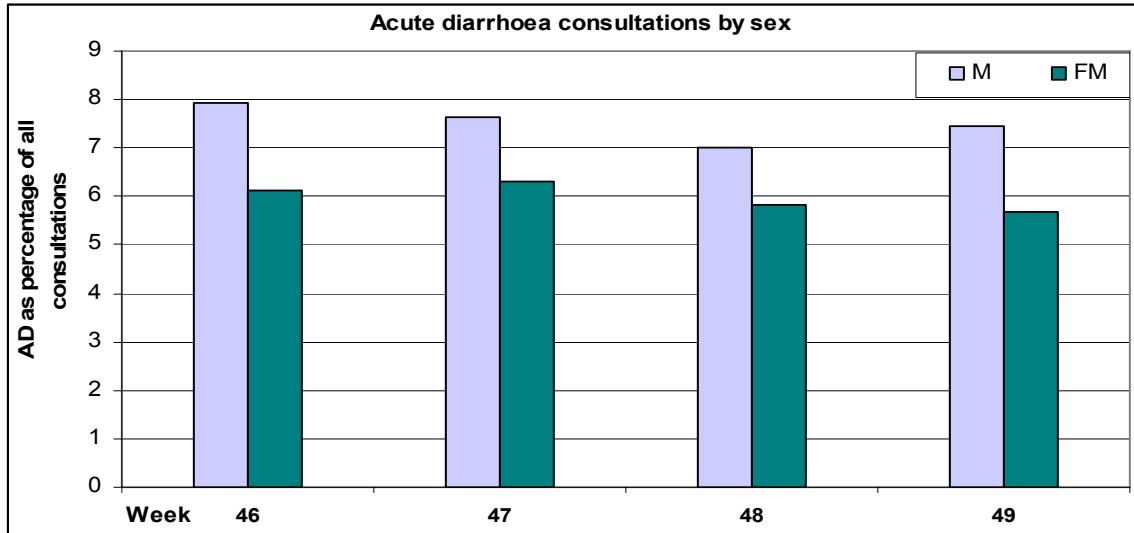


Figure 4: Acute diarrhoea as percentage of all consultations by sex, Earthquake Affected Areas, Pakistan ,10 November to 7 December 2007

DEWS Data, Epidemiological Week No. 49, 2007: Consultations by age

When consultations are divided by age group, children less than 5 years of age make up 20% of all consultations, and are same between the five to fourteen years of age group. Adults of reproductive age make up 42% of consultations, while older adults make up 18%. See Figure 5.

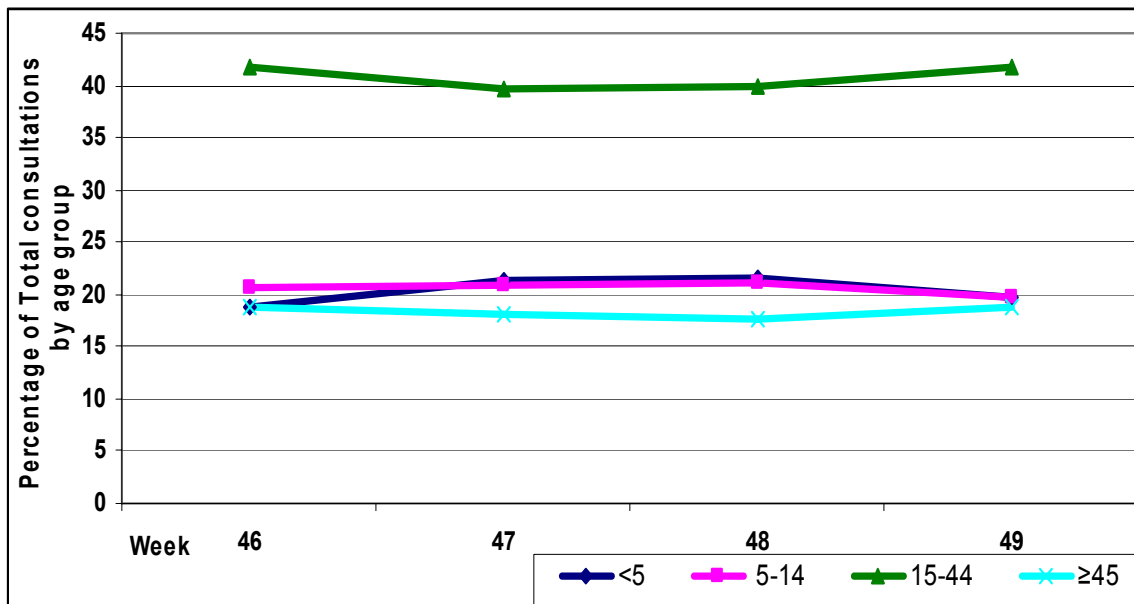


Figure 5: Total consultations by age, Earthquake Affected Areas, Pakistan, 10 November – 7 December 2007

DEWS Data, (Epidemiological Weeks No. 46-49)

During the period 10 Nov to 7 Dec, 2007 (Epidemiological weeks 46 to 49 inclusive), 143,743 consultations relating to health conditions under surveillance were reported, out of the total of 308,162 consultations. **21%** (65,688) of consultations were due to upper respiratory infection (**URTI**), **7%** (20,153) lower respiratory infection, **7%** (20,641) acute diarrhoea (**AD**), **6%** (19,837) due to unexplained fever (**UF**) and **5%** (15,060) due to scabies (**SCB**).

Table 2. Comparison of the weekly distribution of reported cases, deaths and monthly Case Fatality Rate (CFR), Earthquake Affected Areas, Pakistan, 10 Nov – 7 Dec 2007.

Week	WEEK 46		WEEK 47		WEEK 48		WEEK 49		TOTAL		CFR%
Event	C	D	C	D	C	D	C	D	C	D	
AD	5009	2	6234	1	5010	1	4388	0	20641	4	0.019
AFP	2	0	1	0	1	0	0	0	4	0	0.000
AJS	14	0	25	0	11	0	8	0	58	0	0.000
BD	277	0	359	0	244	0	214	0	1094	0	0.000
LRTI	3930	1	5091	2	7004	2	4128	4	20153	9	0.045
MAL	182	0	406	0	265	0	247	0	1100	0	0.000
MG	1	0	0	0	0	0	0	0	1	0	0.000
MS	0	0	1	0	2	0	0	0	3	0	0.000
NNT	0	0	0	0	0	0	0	0	0	0	0.000
OTH	39796	15	49000	9	40118	9	35505	11	164419	44	0.027
SC	0	0	0	0	0	0	0	0	0	0	0.000
SCB	3924	0	3982	0	3834	0	3320	0	15060	0	0.000
UF	4635	0	4333	0	6831	0	4038	0	19837	0	0.009
URTI	14274	1	20495	0	15189	0	15730	0	65688	1	0.002
Total	72065	19	89987	12	78532	12	67578	15	308162	58	
RU	284		287		285		305				

There was a 12% decrease in the number of acute diarrhoea (AD) cases from 5,010 to 4,388 since last week. There was also a decrease in the lower respiratory infection cases from 7,004 to 4,128 since last week, but URTI cases increased from 15,189 to 15,730 from last week. The weekly proportion of ARI (URTI plus LRTI) and AD is shown in figure 6.

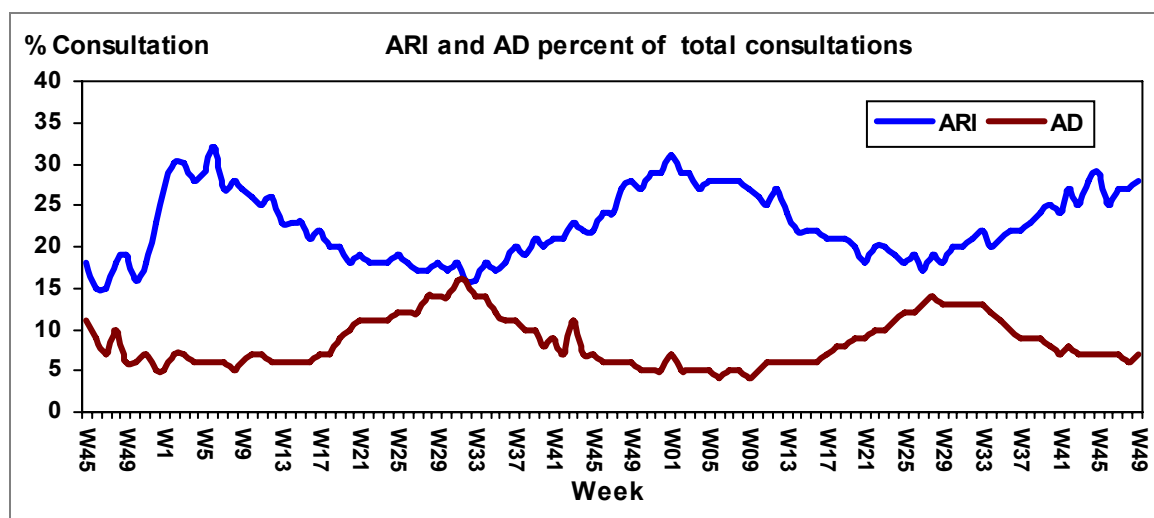


Figure 6. Weekly trend of percent of consultations for ARI and AWD, Earthquake Affected Areas, Pakistan, 15 October 2005 – 7 Dec 2007.

Acute Diarrhoea and suspected Cholera

During week 49, there were 4,388 cases (6% of total consultations in current week) of AD reported, out of which 1,692 cases were in patients less than 5 years of age, 1,001 in patients 5 – 14 years old, 1,222 in patients 15 – 44 years, and 473 in patients 45 years and over. There was no death reported from any district. There were no cases of suspected cholera reported from any district. The rate of acute diarrhoea differs by age group, with the highest rate seen in patients less than 5 years of age, while older adults have lowest rate. In the last four weeks, the trend in the disease has remained stable for most age groups. See Figure 7.

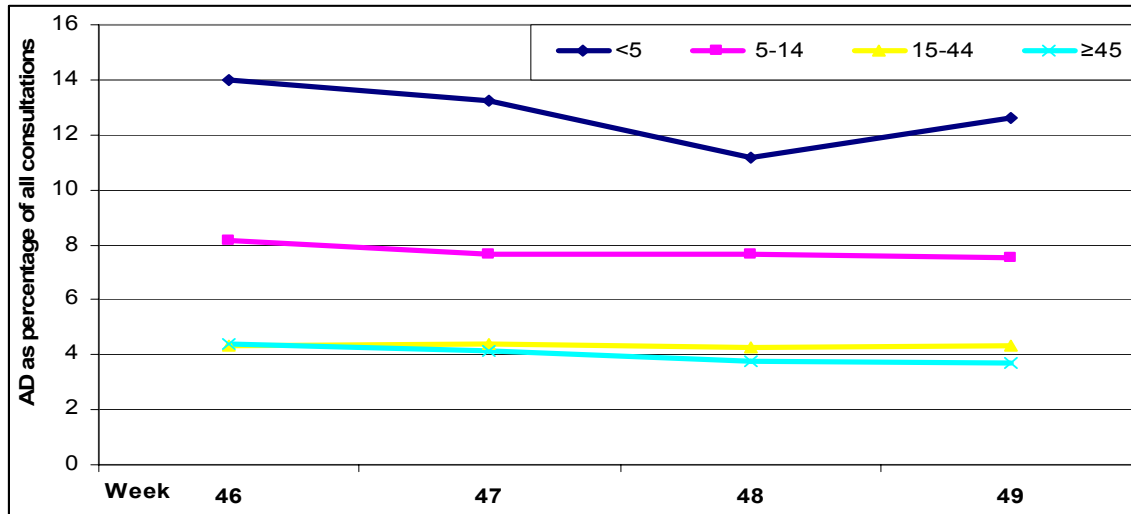


Figure 7: Trend in Acute diarrhoea as a percent of all consultations, by age group, Earthquake Affected Areas, Pakistan, 10 November to 7 December 2007

Bloody Diarrhoea

During week 49, there were 214 cases of bloody diarrhoea reported. There were no associated deaths reported from any district. The rate of bloody diarrhoea differs considerably by district. Neelum has the highest rate, with approximately more than one case for every site. This however is a considerable decrease since last week, where Battagram also had approximately 1 case per reporting site. See Figure 8.

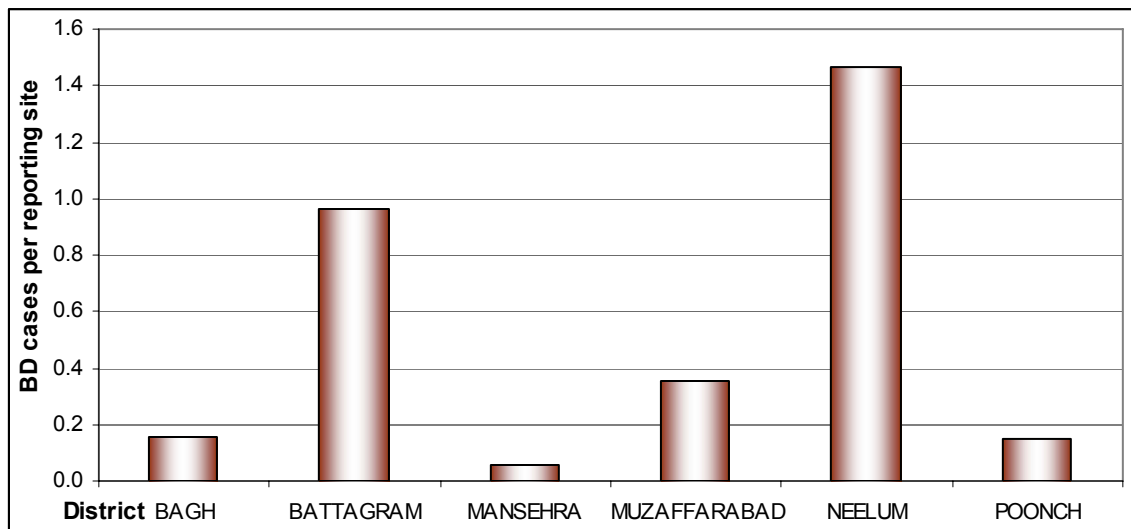


Figure 8: Bloody Diarrhoea cases per reporting site, by district, Earthquake Affected Areas, Pakistan, 10 November to 7 December 2007

Acute Jaundice Syndrome

In week 49, there were 8 cases of suspected hepatitis reported, out of which 4 cases were from Battagram, 3 cases from Mansehra, 1 case was reported from Bagh district. There were no associated deaths reported from any district. There were no suspected hepatitis cases reported from Neelum, Muzaffarabad and Poonch district. See figure 9.

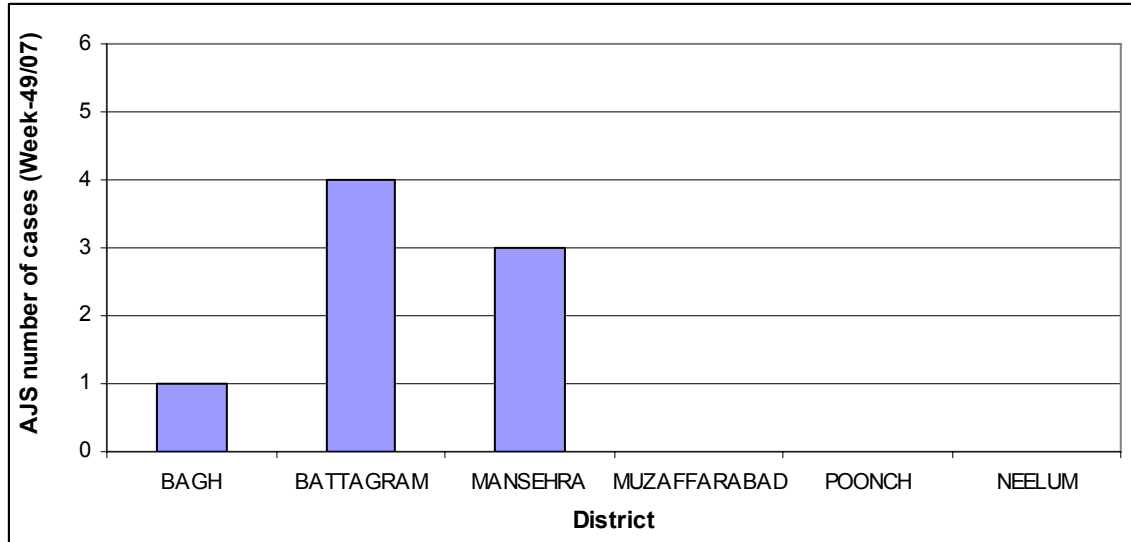


Figure 9: Acute jaundice syndrome number of cases, Earthquake Affected Areas, Pakistan, 1- 7 December 2007

Malaria

In week 49, there were 247 cases of malaria reported. There were no associated deaths reported from any district. District Poonch has had highest rate of malaria in last three week. District Muzaffarabad and Bagh have seen a rise in malaria cases; however in district Bagh the rate is low. See figure 10.

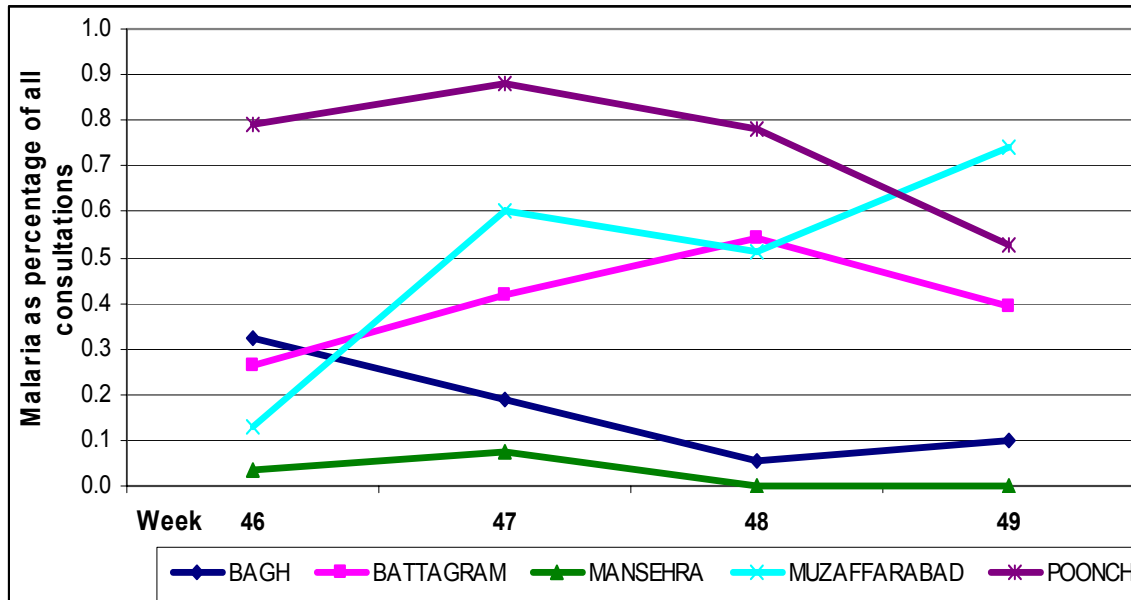


Figure 10: Malaria percentage of cases by district, Earthquake Affected Areas, Pakistan, 10 November to 7 December 2007

Measles

In week 49, there was no suspected case of measles reported from any district. In the last seven week, there have been 5 measles cases in 2007. However, when compared to the trends in the last year, the weekly number of cases reported is still comparatively low. See Figure 11.

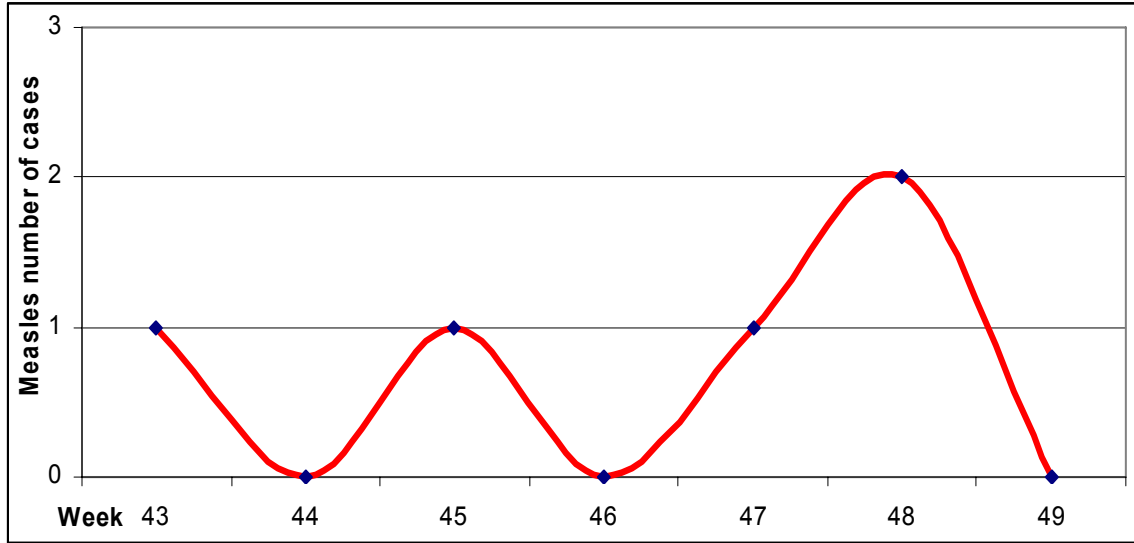


Figure 11: Trend in measles cases, Earthquake Affected Areas, Pakistan, 20 October – 7 December, 2007.

Upper Respiratory Infection and Lower respiratory Infection:

In week 49, there were 4,128 consultations for Acute Lower Respiratory Infections and 15,730 cases of Upper Respiratory Infections reported through the DEWS system. There were 4 deaths, both in patients less than five years of age classified as lower respiratory infection reported 2 from Mansehra and 2 from Muzaffarabad district. See Figure 12.

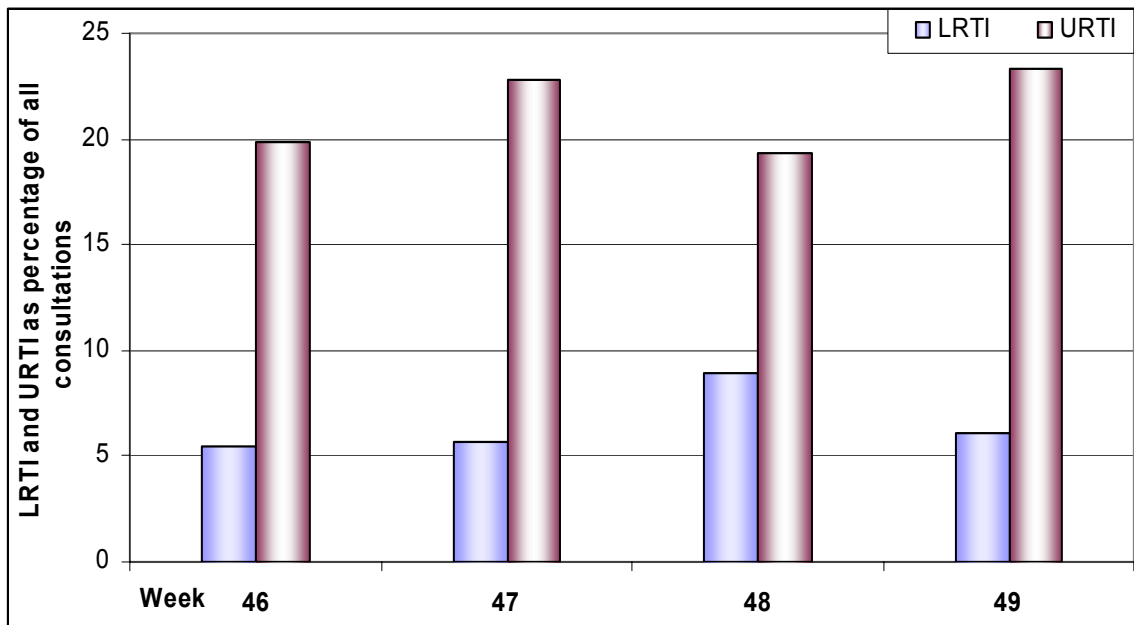


Figure 12: LRTI as a percent of all acute respiratory infections, by district, Earthquake Affected Areas, Pakistan, 1 – 7 Dec. 2007.

Other Conditions under Surveillance:

There were 3,320 cases of scabies reported in week 49. There were 4,038 cases of unexplained fever reported in week 49, with no associated deaths. There were no cases of hemorrhagic fever, meningitis, or neonatal tetanus. The rate of scabies would be expected to decline during the winter, but in the last four weeks it has remained relatively stable. See Figure 13.

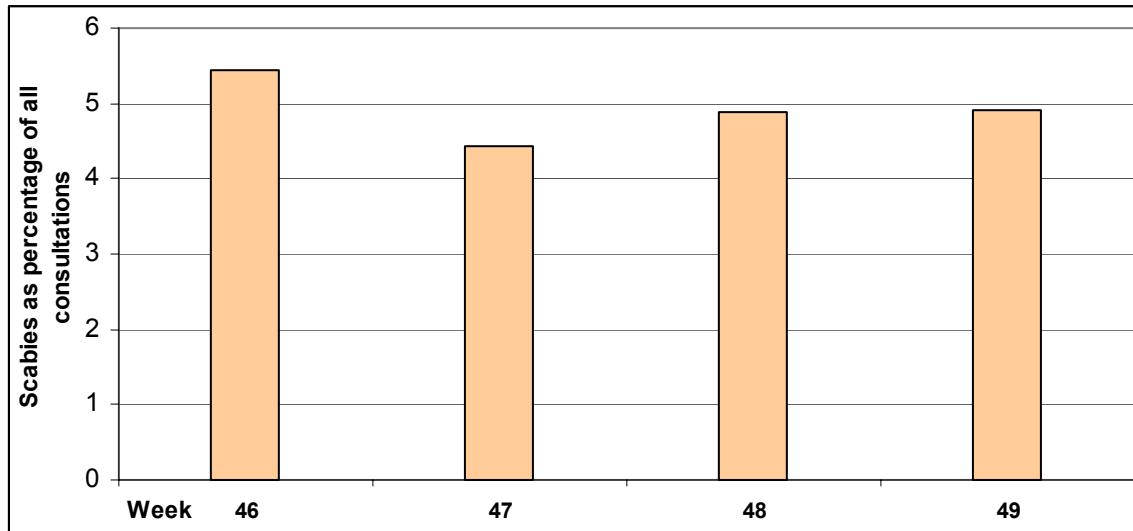


Figure 13: Scabies as a percent of all consultations, by district, Earthquake Affected Areas, Pakistan, 1 – 7 Dec. 2007.

Number of reported cases and deaths per District, AJKTable 3. Number of reported cases and deaths, **Bagh District***, Earthquake Affected Areas, Pakistan, 10 Nov - 7 Dec 2007.

Week	AD		SC		BD		AFP		LRTI		URTI		MAL		MS		MG		AHF		SCB		UF		AJS		OTH	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
46	559	0	0	0	8	0	0	0	205	0	1956	0	37	0	0	0	0	0	0	0	487	0	224	0	1	0	8049	3
47	516	0	0	0	12	0	0	0	229	0	2171	0	23	0	0	0	0	0	0	0	449	0	203	0	3	0	8451	2
48	464	0	0	0	11	0	0	0	237	0	2130	0	7	0	0	0	0	0	0	0	492	0	153	0	1	0	8744	1
49	342	0	0	0	14	0	0	0	170	0	1937	0	9	0	0	0	0	0	0	0	319	0	154	0	1	0	6180	0
Total	1881	0	0	0	45	0	0	0	841	0	8194	0	76	0	0	0	0	0	0	0	1747	0	734	0	6	0	31424	6

Table 4. Number of reported cases and deaths, **Poonch District***, Earthquake Affected Areas, Pakistan, 10 Nov - 7 Dec 2007.

Week	AD		SC		BD		AFP		LRTI		URTI		MAL		MS		MG		AHF		SCB		UF		AJS		OTH	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
46	939	0	0	0	19	0	0	0	1224	0	2636	0	98	0	0	0	0	0	0	0	892	0	1451	0	0	0	5166	5
47	1075	0	0	0	15	0	0	0	1374	2	3335	0	128	0	0	0	0	0	0	0	701	0	1736	0	1	0	6158	5
48	768	0	0	0	9	0	0	0	1258	0	2692	0	92	0	0	0	0	0	0	0	665	0	1377	0	0	0	4881	0
49	905	0	0	0	19	0	0	0	1271	0	2897	0	67	0	0	0	0	0	0	0	657	0	1567	0	0	0	5306	1
Total	3687	0	0	0	62	0	0	0	5127	2	11560	0	385	0	0	0	0	0	0	0	2915	0	6131	0	1	0	21511	11

Table 5. Number of reported cases and deaths, **Muzaffarabad District***, Earthquake Affected Areas, Pakistan, 10 Nov - 7 Dec 2007.

Week	AD		SC		BD		AFP		LRTI		URTI		MAL		MS		MG		AHF		SCB		UF		AJS		OTH	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
46	1688	2	0	0	179	0	0	0	1678	0	4948	1	27	0	0	0	0	0	0	0	1042	0	1270	0	1	0	11915	4
47	1656	0	6	0	160	0	0	0	1498	0	5685	0	110	0	0	0	0	0	0	0	916	0	399	0	1	0	10389	0
48	2181	1	0	0	164	0	0	0	4572	0	6092	0	141	0	0	0	0	0	0	0	1105	0	3749	0	3	0	13177	4
49	1603	0	0	0	110	0	0	0	2008	2	5650	0	146	0	0	0	0	0	0	0	988	0	883	0	0	0	11094	8
Total	7128	3	6	0	613	0	0	0	9756	2	22375	1	424	0	0	0	0	0	0	0	4051	0	6301	0	5	0	46575	16

Number of reported cases and deaths per District, NWFPTable 6. Number of reported cases and deaths, **Battagram District***, Earthquake Affected Areas, Pakistan, 10 Nov - 7 Dec 2007.

Week	AD		SC		BD		AFP		LRTI		URTI		MAL		MS		MG		AHF		SCB		UF		AJS		OTH	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
46	654	0	0	0	44	0	0	0	249	0	937	0	13	0	0	0	0	0	0	0	261	0	381	0	9	0	2361	0
47	674	0	0	0	43	0	1	0	268	0	1074	0	21	0	0	0	0	0	0	0	304	0	409	0	19	0	2196	0
48	558	0	0	0	45	0	1	0	248	0	937	0	25	0	0	0	0	0	0	0	285	0	391	0	8	0	2055	0
49	664	0	0	0	61	0	0	0	298	0	1563	0	25	0	0	0	0	0	0	0	342	0	448	0	4	0	2933	0
Total	2550	0	0	0	193	0	2	0	1063	0	4511	0	84	0	0	0	0	0	0	0	1192	0	1629	0	40	0	9545	0

Table 7. Number of reported cases and deaths, **Mansehra District***, Earthquake Affected Areas, Pakistan, 10 Nov - 7 Dec 2007.

Week	AD		SC		BD		AFP		LRTI		URTI		MAL		MS		MG		AHF		SCB		UF		AJS		OTH	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
46	1169	0	0	0	27	0	2	0	574	1	3797	0	7	0	0	0	1	0	0	0	1242	0	1309	0	3	0	12305	3
47	971	1	0	0	7	0	0	0	467	0	3454	0	14	0	1	0	0	0	0	0	848	0	1189	0	0	0	12328	2
48	1039	0	0	0	15	0	0	0	689	2	3338	0	0	0	2	0	0	0	0	0	1287	0	1161	0	1	0	11222	4
49	874	0	0	0	10	0	0	0	381	2	3683	0	0	0	0	0	0	0	0	0	1014	0	986	0	3	0	9992	2
Total	4053	1	0	0	59	0	2	0	2111	5	14272	0	21	0	3	0	1	0	0	0	4391	0	4645	0	7	0	45847	11