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Weekly Bulletin: Integrated Disease Surveillance and Response (IDSR)

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Highlights of the Epi Week 38 (20th–26th September 2021)

Cumulative Information:

- During this week, maximum cases reported were of ILI, Acute Diarrhea (Non Cholera), Malaria, ALRI <5 years, B. Diarrhea, Typhoid, SARI, suspected Cholera, Viral Hepatitis (B, C & D) & AVH (A & E).
- In comparison with previous week i.e. Week-37, AD (Non Cholera), AVH (A & E) and Malaria cases have shown an increasing trend whereas rest of all reported diseases have shown similarity or decline in trend.
- Dengue cases are on rise in KP, Sindh, Balochistan, and ICT which need immediate epidemiological investigations and vector control response.
- Persistent reporting of B. Diarrhea, Typhoid, suspected Cholera and AVH (A&E) cases need urgent attention in terms of epidemiological investigations and response measures.
- Cases of Measles, Chickenpox, Mumps & Pertussis were reported from Balochistan, ICT, Sindh & KP, therefore routine immunization needs to be strengthened in order to decrease the disease burden of VPDs.
- Cases of AFP have been reported from KP & Sindh which need urgent attention and immediate action accordingly.
- Dog bite cases need follow up, and proper clinical management/ vaccination. Response measures may be taken at human-animal interface.

Figure 1: Most frequently reported cases during week 38, in comparison with previous weeks, Pakistan

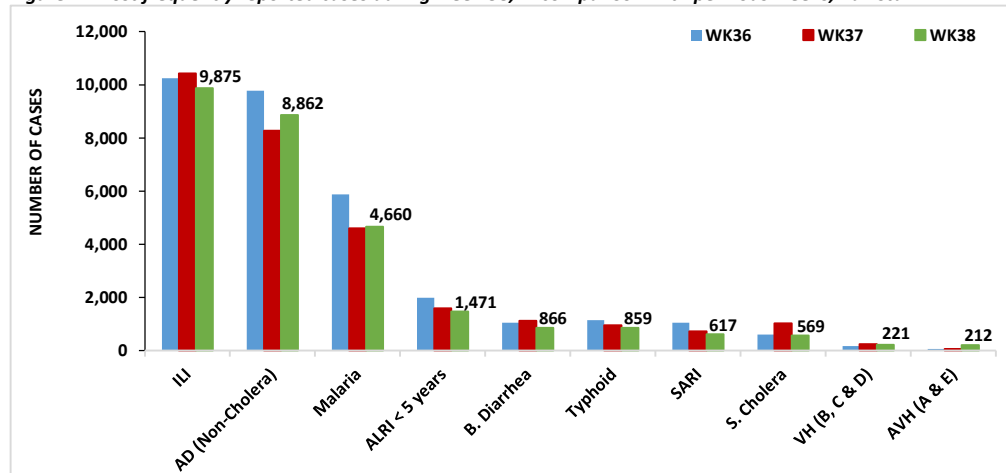


Table 1: Province/Area wise distribution of most frequently reported cases during week 38, Pakistan

Diseases	AJK	Balochistan	GB	ICT	KP	Sindh	Total
ILI	31	3,093	0	143	1,481	5,127	9,875
AD (Non-Cholera)	59	1,373	20	252	3,158	4,000	8,862
Malaria	1	1,005	0	6	1,279	2,369	4,660
ALRI < 5 years	15	172	7	109	249	919	1,471
B. Diarrhea	0	336	1	5	175	349	866
Typhoid	5	178	3	1	334	338	859
SARI	0	99	2	20	430	66	617
S. Cholera	0	39	2	0	260	268	569
Rabies/Dog bite	0	20	0	0	31	93	144
Dengue	0	2	0	1	61	32	96
Measles	0	48	0	2	10	13	73
Mumps	0	7	0	2	14	8	31
Chickenpox	0	0	0	6	11	4	21
Pertussis	0	7	0	0	3	0	10
AFP	0	0	0	0	2	3	5

Point of Attention

- Currently Dengue season is in progress, therefore, to prevent rise in Dengue fever cases across country, there is a need to closely monitor Dengue fever cases, vector density, larva source management, and implementation of public health response activities in the hotspot areas.
- AD (Non-Cholera), suspected Cholera, AVH and Typhoid cases reported from Balochistan, KP, Sindh, and GB needs spot mapping for identification of affected areas, and implementation of response activities.
- It is proposed to enhance community awareness on water, sanitation and hygiene (WASH) practices especially for food and water borne diseases which are regularly reported from districts.
- Dog bite cases are regularly reported, therefore, community awareness sessions may be arranged for wound management, importance of Rabies vaccine, and information about treatment centers. District health authorities in collaboration with animal health department and municipal corporations should devise strategies for control stray dogs. At provincial level a comprehensive Rabies control plan should be developed and implemented.
- IDSR focal persons may share alert verification and outbreak investigation reports. This may help in furnishing details on disease burden, circulating pathogens and devising national strategies for prevention & control of diseases.

Sindh

- Sindh reported maximum cases of ILI (n=5,127), AD (Non Cholera) (n=4,000), Malaria (n=2,369), ALRI <5 Years (n=919), B. diarrhea (n=349), Typhoid (n=338), suspected Cholera (n=268), VH (B, C & D) (n=213), AVH (A & E) (n=187) and Rabies/ Dog bite (n=93).
- District Ghotki reported the maximum cases of AD (Non Cholera), ALRI <5 years, ILI, Malaria, B. Diarrhea & Typhoid.
- District Hyderabad reported maximum cases of ILI, AD (Non Cholera), suspected Cholera, ALRI <5 years & Malaria.
- From Karachi East, maximum cases reported were of AD (Non Cholera) and Malaria.
- From Karachi Malir, maximum cases reported were of AD (Non Cholera), ILI, ALRI<5 years, Typhoid and Malaria.
- District Larkana reported cases of Malaria and AD (Non Cholera).
- Naushahro Feroze reported cases of ILI, AD (Non Cholera), Malaria and Typhoid at maximum.
- From Tharparkar, maximum cases of ILI, AD (Non-Cholera), Malaria, ALRI <5 years, B. Diarrhea & Typhoid were reported.
- From Thatta, maximum cases of Malaria, AD (Non Cholera), ILI, and VH (B, C&D) were reported.
- Cases of Measles, Mumps and Meningitis have been reported, hence there is a need of strengthening routine immunization to decrease disease burden of VPDs.
- Cases of Anthrax have been reported from Hyderabad which needs immediate verification and further work up accordingly.
- This week, increase in case trend observed for Malaria, and AD (Non Cholera) while cases of ILI have shown a sharp decline as compared to previous week.

(Note: NR= Not Reported)

Figure 2: Most frequently reported cases during week 38, in comparison with pervious weeks, Sindh

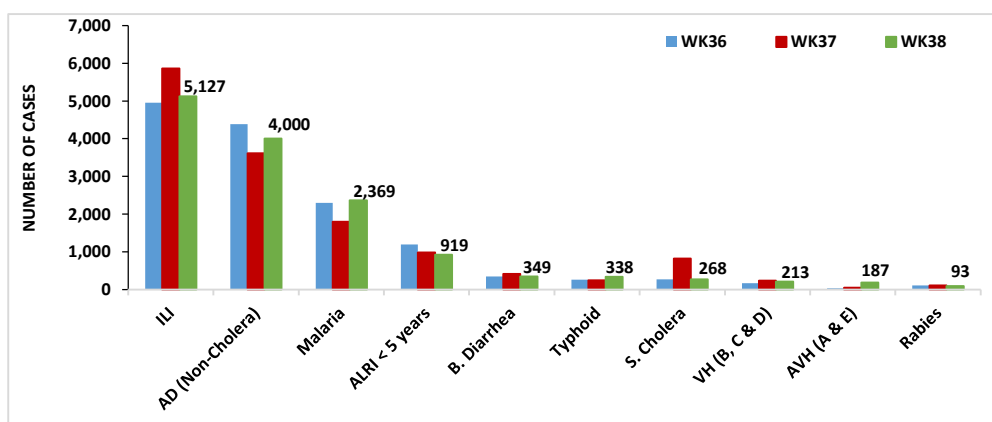
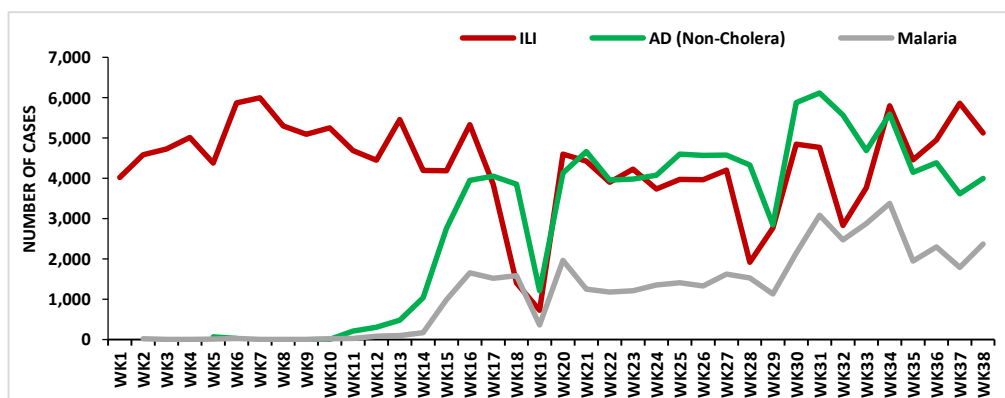


Table 2: District wise distribution of most frequently reported cases during week 38, Sindh

Diseases	Ghotki	Hyderabad	Karachi East	Karachi Malir	Larkana	Naushero Feroze	Thar parkar	Thatta	Total
ILI	268	2,550	5	349	0	284	1,064	607	5,127
AD (Non-Cholera)	345	1,125	170	560	3	167	943	687	4,000
Malaria	111	100	45	56	11	145	925	976	2,369
ALRI < 5 years	286	190	4	104	0	21	273	41	919
B. Diarrhea	104	60	3	28	0	27	100	27	349
Typhoid	59	23	0	96	0	58	76	26	338
S. Cholera	49	204	0	11	0	0	0	4	268
VH (B, C & D)	23	76	0	12	0	4	7	91	213
Anthrax	0	77	0	0	0	0	0	0	77
SARI	9	23	0	0	0	10	15	9	66
Dengue	0	2	0	2	0	0	28	0	32
Gonorrhea	0	4	0	0	0	2	8	0	14
Measles	5	2	2	0	0	0	0	4	13
Mumps	0	1	0	2	0	0	4	1	8
Meningitis	0	NR	0	0	0	0	6	0	6
AFP	1	0	0	0	0	0	1	1	3

Figure 3: Week wise reported cases of ILI, AD (Non-Cholera), & Malaria, Sindh



Balochistan

- From Balochistan, overall ILI (n=3,093), AD (Non Cholera) (n=1,373), Malaria (n=1,005), B. Diarrhea (n=336), Typhoid (n=178), ALRI <5 years (n=172), SARI (n=99), CL (n=78), Measles (n=48), suspected Cholera (n=39) remained at maximum.
- District Gwadar reported maximum cases of ILI, AD (Non Cholera), Malaria, and B. Diarrhea.
- District Kech reported maximum cases of ILI, AD (Non-Cholera), Malaria, B. Diarrhea, and ALRI <5 years.
- District Khuzdar reported maximum cases of ILI, AD (Non-Cholera), Malaria, B. Diarrhea, and Typhoid.
- District Killa Abdullah has reported maximum cases of ILI and AD (Non Cholera).
- District Lasbella reported maximum cases for Malaria, AD (Non-Cholera), ALRI <5 years & SARI.
- District Pishin reported most cases for B. Diarrhea, ILI and AD (Non-Cholera).
- District Quetta reported maximum cases for ILI, AD (Non-Cholera) & B. Diarrhea.
- Cases of Gonorrhea from districts Khuzdar, and Pishin need urgent attention in terms of differential diagnosis from UTIs, and response measures accordingly.
- Cases of Pertussis, Mumps & Meningitis have been reported so there is a need to strengthen routine immunization to decrease the burden of VPDs.
- In comparison with last week, AD (Non Cholera) cases have shown a downward trend whereas ILI cases depicted a slight increase in trend as compared to previous week.

Figure 4: Most frequently reported cases during week 38, in comparison with previous weeks, Balochistan

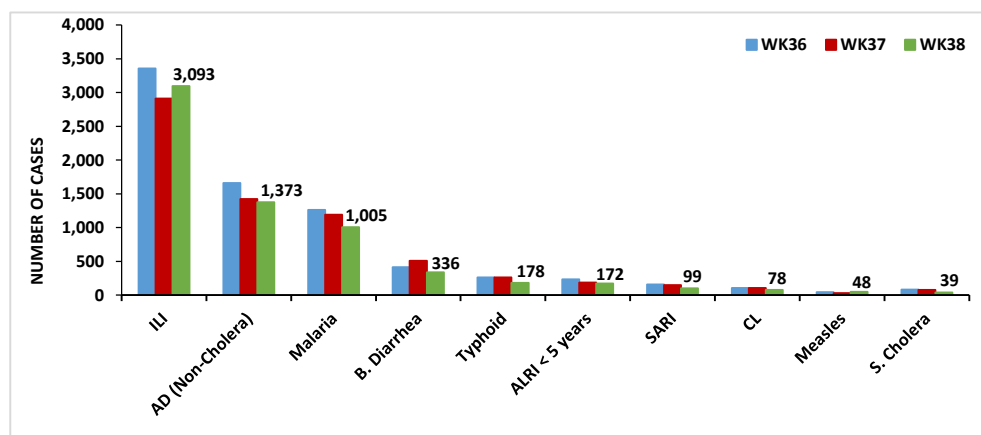
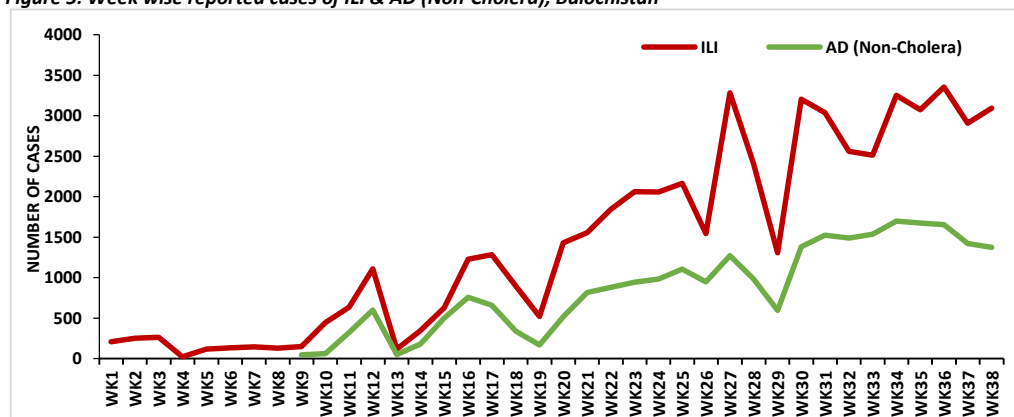


Table 3: District wise distribution of most frequently reported cases during week 38, Balochistan

Diseases	Gwadar	Kech (Turbat)	Khuzdar	Killa Abdullah	Lasbella	Pishin	Quetta	Total
ILI	628	1,314	156	191	22	52	730	3,093
AD (Non-Cholera)	288	437	101	114	161	50	222	1,373
Malaria	160	431	88	19	259	32	16	1,005
B. Diarrhea	38	80	76	NR	19	59	64	336
Typhoid	2	10	70	9	16	45	26	178
ALRI < 5 years	8	54	18	NR	89	3	0	172
SARI	7	29	14	NR	49	0	0	99
CL	NR	1	10	26	11	22	8	78
Measles	NR	1	17	30	0	0	0	48
S. Cholera	NR	0	15	NR	19	0	5	39
Rabies / Dog bite	NR	0	14	3	3	0	0	20
Gonorrhea	NR	0	18	NR	0	2	0	20
Pertussis	NR	0	7	NR	0	0	0	7
Mumps	1	0	3	NR	1	2	0	7
Meningitis	NR	0	0	6	0	0	0	6

Figure 5: Week wise reported cases of ILI & AD (Non-Cholera), Balochistan



Khyber Pakhtunkhwa (KP)

- KP reported cases of AD (Non Cholera) (n=3,158), ILI (n=1,481), Malaria (n=1,279), SARI (n=430), Typhoid (n=334), suspected Cholera (n=260), ALRI <5 years (n=249), B. Diarrhea (n=175), Dengue (n=61) and Rabies/Dog bite (n=31).
- District Abbottabad reported maximum cases of AD (Non-Cholera), SARI, and Typhoid.
- District Charsadda reported maximum cases of AD (Non-Cholera), Malaria, suspected Cholera, Typhoid, and SARI.
- District Haripur reported maximum cases of AD (Non-Cholera), ILI, ALRI <5 years, Typhoid, Malaria & SARI.
- District Kohat reported maximum cases of AD (Non-Cholera), ILI, SARI, and Malaria.
- District Lakki Marwat reported maximum cases of Malaria, AD (Non-Cholera), ILI, ALRI <5 years and Typhoid.
- Weekly cases of AD (Non-Cholera) are showing a slight incline, Malaria cases are at a decline while ILI cases have shown a similar trend as compared to previous week i.e. 37.
- Cases of Chickenpox, Measles, Pertussis and Mumps have been reported indicating to strengthen the routine immunization so that the disease burden of VPDs can be decreased.
- Cases of AFP have been reported from Lakki Marwat which need urgent attention and immediate response accordingly.
- Dengue and Malaria cases have been reported which need immediate verification. Health department in coordination with vector control program should carry out vector surveillance and control measures accordingly.

Figure 6: Most frequently reported cases during week 38, in comparison with pervious weeks, KP

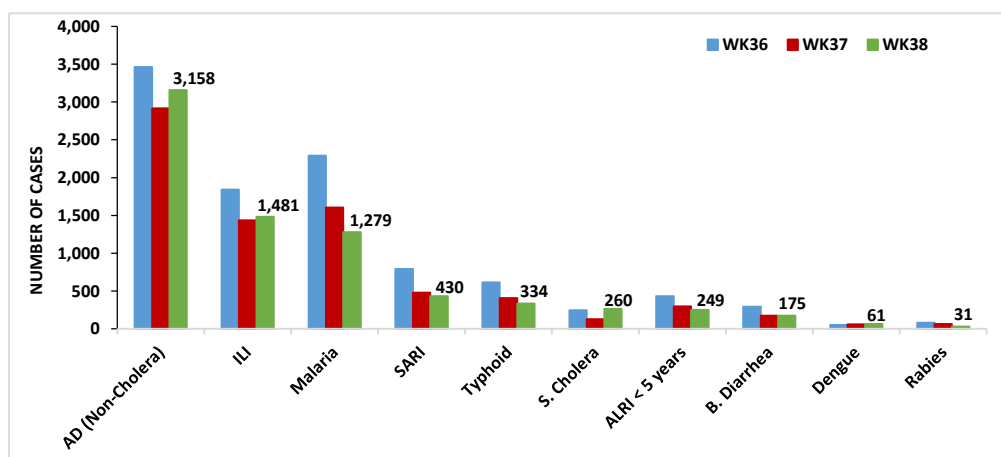
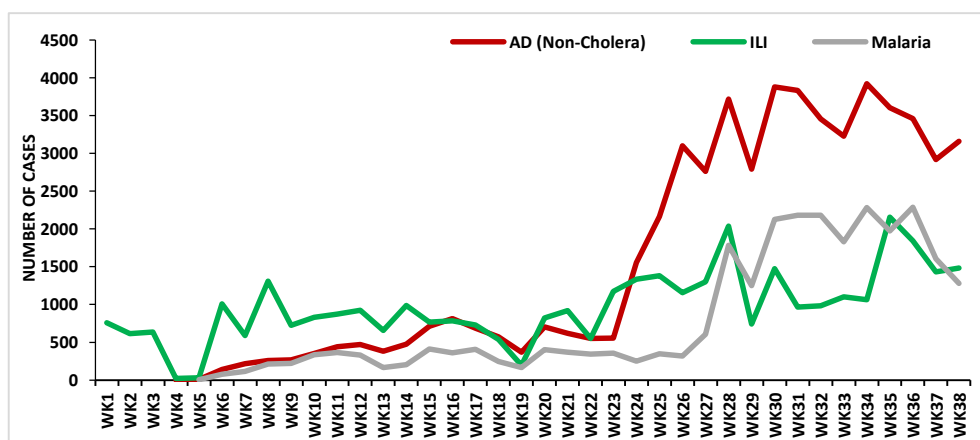


Table 4: District wise distribution of most frequently reported cases during week 38, KP

Diseases	Abbottabad	Charsadda	Haripur	Kohat	Lakki Marwat	Total
AD (Non-Cholera)	517	787	1,114	357	383	3,158
ILI	0	65	1,027	315	74	1,481
Malaria	1	503	102	162	511	1,279
SARI	44	105	87	171	23	430
Typhoid	28	110	108	30	58	334
S. Cholera	3	141	83	33	0	260
ALRI < 5 years	20	1	123	35	70	249
B. Diarrhea	9	38	58	36	34	175
Dengue	0	0	60	1	0	61
Rabies / Dog bite	0	0	0	18	13	31
Mumps	0	0	3	0	11	14
Chickenpox	0	0	10	0	1	11
Measles	0	0	8	2	0	10
Pertussis	0	0	0	0	3	3
AFP	0	0	0	0	2	2

Figure 7: Week wise reported cases of ILI, AD(Non-Cholera), & Malaria, KP



Islamabad (ICT)

- From ICT, the most frequent reported diseases were AD (Non-Cholera) (n=252), ILI (n=143), ALRI <5 years (n=109), SARI (n=20), Malaria (n=06), Chickenpox (n=06), followed by B. Diarrhea (n=05), Measles (n=02), Mumps (n=02), and Typhoid (n=01).
- During this week, a sharp increase was observed for cases of AD (Non Cholera) while ILI cases have shown downward trend as compared to previous week i.e. week 37.

(Note: ICT started reporting data on new format; therefore, data before week-26 for AD (Non-Cholera) is not shown in trend graph).

Figure 8: Most frequently reported cases during week 38, in comparison with pervious weeks, ICT

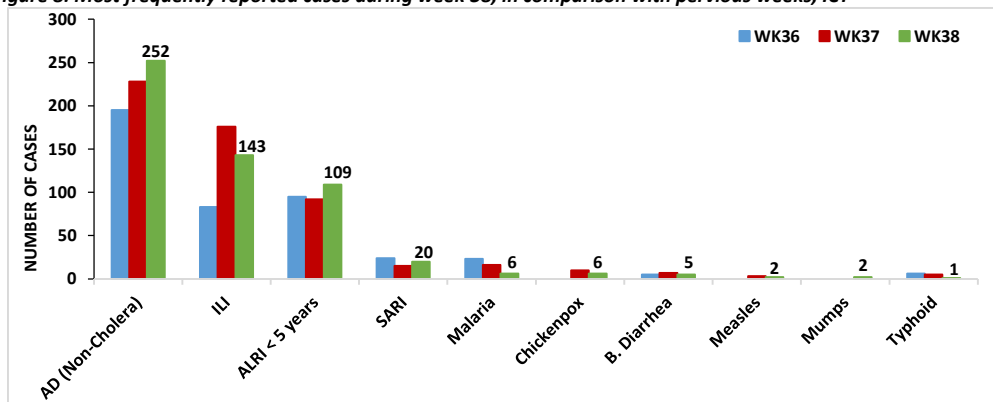
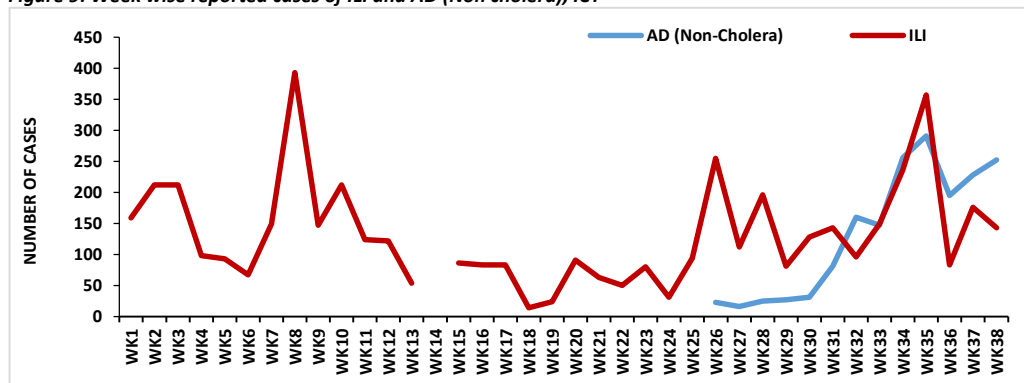


Figure 9: Week wise reported cases of ILI and AD (Non cholera), ICT



Gilgit Baltistan

- Gilgit Baltistan reported cases of AD (Non-Cholera) (n=20), ALRI<5 years (n=07), Typhoid (n=03), SARI (n=02), suspected Cholera (n=02), and B. Diarrhea (n=01) this week.
- Weekly trend shows a sharp decline in cases of AD (Non Cholera), and ALRI <5 years as compared to previous week i.e. Week-37.

(Note: GB started reporting data on new format; therefore, data before week-15 is not shown in trend graph)

Figure 10: Most frequently reported cases during week 38, in comparison with pervious weeks, GB

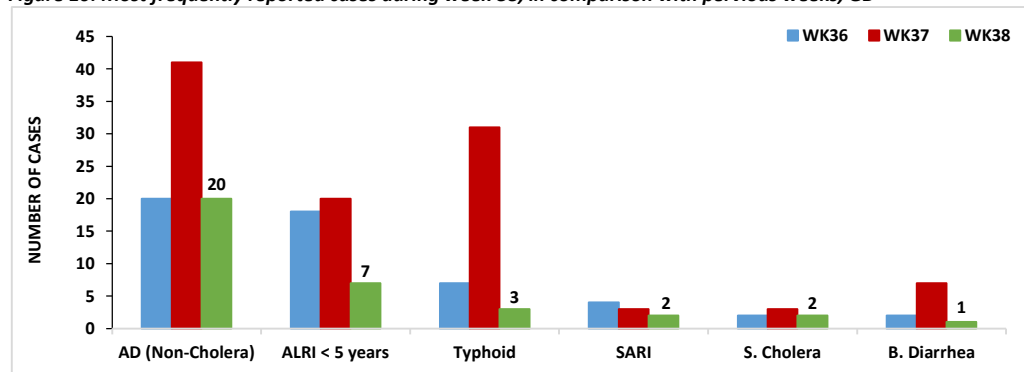
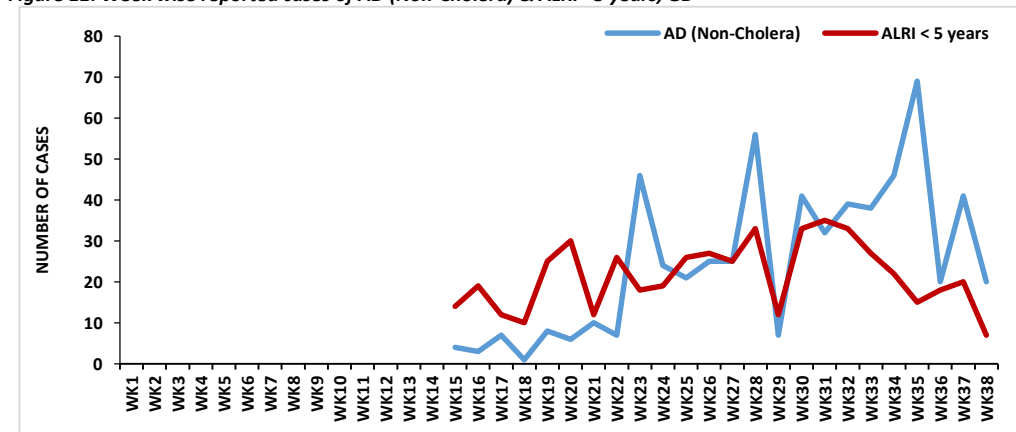


Figure 11: Week wise reported cases of AD (Non-Cholera) & ALRI <5 years, GB



Azad Jammu & Kashmir

- From AJK, Mirpur reported AD (Non-Cholera) and ILI cases depicting a sharp incline in trend as compared to previous week.

IDSR Participating Districts

- This week hundred percent (%) data was reported from districts Haripur, Kohat, Lakki Marwat, ICT, CDA & Killa Abdullah.
- No data has been received from districts Nagar, Shikarpur & Umerkot.

Figure 12: Week wise reported cases of AD (Non-Cholera) & ILI, AJK

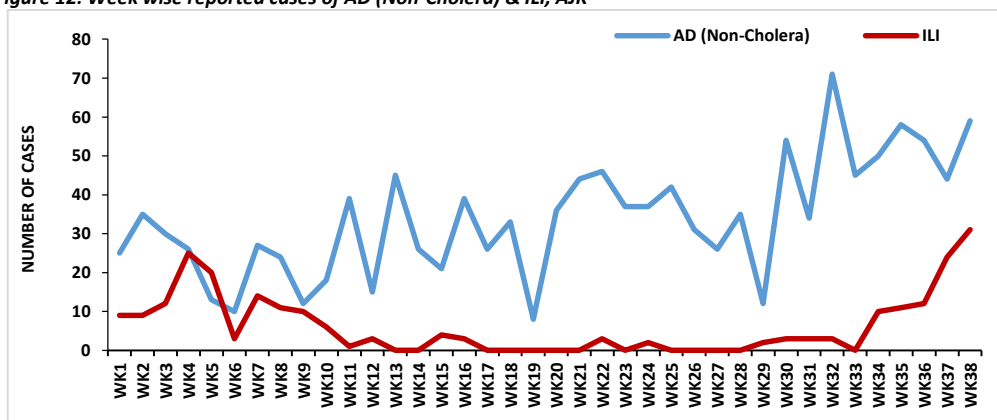


Table 5: IDSR reporting districts

Province	Districts	Total Number of Reporting Sites (ARS/Total)	Total Number of Sites that Reported (%)
Khyber Pakhtunkhwa	Haripur	69/69	69(100%)
	Kohat	59/59	59(100%)
	Abbottabad	110/110	89(81%)
	Charsadda	61/61	49(81%)
	Lakki Marwat	48/48	48(100%)
	Swat	77/77	49(64%)
Azad Jammu Kashmir	Mirpur	37/37	26(70%)
Islamabad Capital Territory	ICT	18/18	18(100%)
	CDA	5/12	5(100%)
Balochistan	Gwadar	24/24	20(84%)
	Kech	42/78	41(98%)
	Khuzdar	19/136	15(79%)
	Killa Abdullah	24/50	24(100%)
	Lasbella	83/83	82(99%)
	Pishin	23/118	17(74%)
	Quetta	22/77	19(86%)
Gilgit	Hunza	30/30	24(80%)
	Nagar	06/22	0
Sindh	Hyderabad	63/63	56 (89%)
	Karachi-East	14/14	13(93%)
	Karachi-Malir	43/43	32(75%)
	Ghotki	58/58	49 (85%)
	Umerkot	30/118	0
	Naushahro Feroze	52/52	5(10%)
	Tharparkar	85/236	81(96%)
	Shikarpur	18/21	0
	Thatta	27/50	5(19%)
	Larkana	149/149	1(0.01%)

*percentage = {Sites Reported data/Agreed Reporting Sites (ARS)}*100