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Weekly Bulletin: Integrated Disease Surveillance and Response (IDSR)

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Highlights of the Epi-Week 34 (23rd–29th August 2021)

Cumulative Information:

- During this week, maximum cases reported were of Acute Diarrhea (Non Cholera), ILI, Malaria, ALRI <5 years, SARI, B. diarrhea, Typhoid, suspected Cholera, Viral Hepatitis (B, C & D) & Dog bite/ Rabies.
- In comparison with previous week i.e. Week-33, AD (Non Cholera), ILI, Malaria, ALRI <5 years & VH (B, C & D) have shown an increasing trend while cases of SARI, B. diarrhea, Typhoid, suspected Cholera & dog bite have shown similar trend.
- Cases of dog bite are being reported consistently from Sindh, KP, and Balochistan, which need epidemiological investigations and response action in One-Health perspective. Rabies vaccine and immunoglobulins should be administered to dog bite cases as a part of their clinical management.
- Most cases of CL have been reported from Balochistan which needs urgent attention, thorough investigation and response accordingly.
- Maximum cases of Dengue fever were reported from Sindh which needs immediate verification, epidemiological investigation, and public health response along with vector surveillance and control.
- Most cases of AVH were reported from Balochistan, KP and Sindh which needs immediate verification, epidemiological investigation & public health response.
- Routine Immunization needs to be strengthened at each district level to decrease disease burden of VPDs.

Figure 1: Most frequently reported cases during week 34, in comparison with pervious weeks, Pakistan

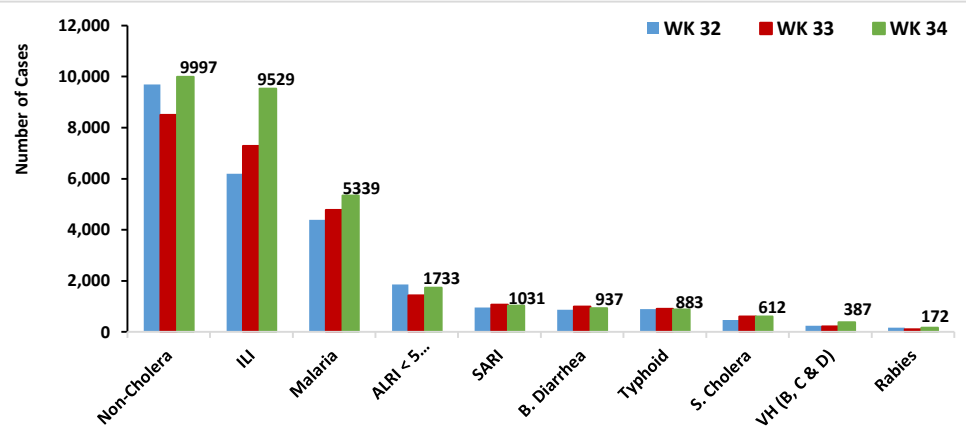


Table 1: Province/Area wise distribution of most frequently reported cases during week 34, Pakistan

Diseases	AJK	Balochistan	GB	ICT	KP	Sindh	Total
Non-Cholera	50	1,698	46	253	3,500	4,450	9,997
ILI	10	3,252	28	231	765	5,243	9,529
Malaria	0	889	0	12	1,982	2,456	5,339
ALRI <5 years	26	174	22	37	380	1,094	1,733
SARI	1	140	18	21	724	127	1,031
B. diarrhea	1	375	8	6	243	304	937
Typhoid	2	197	18	4	393	269	883
S. Cholera	0	65	16	1	221	309	612
VH (B, C & D)	0	11	0	0	0	376	387
Rabies/ Dog bite	0	24	1	1	64	82	172
CL	0	158	0	0	3	0	161
AVH	1	33	1	0	69	32	136
Measles	0	28	0	0	6	6	40
Chickenpox	0	4	0	1	29	0	34
DF	0	7	0	0	2	18	27

Point of Attention

- There is a need to verify cases of ILI and ALRI <5 years country wide, and to initiate response activities.
- AD (Non-Cholera), suspected Cholera and Typhoid cases reported from Balochistan, KP, Sindh, and GB need 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 reporting districts.
- Cases of vaccine preventable diseases are being reported every week. Vigilant monitoring, alert verification, outbreak investigation, and coordination with EPI needs to be strengthened to reduce the cases.
- During and after monsoon season, rise in dengue fever cases is expected. Therefore, there is a need to closely monitor dengue fever cases, larva density, and implement public health response activities.
- High number of CL cases were reported from Balochistan. This needs immediate attention in terms of verification, epidemiological investigations, and response measures. In this context, understanding of case definitions is crucial in making differential diagnosis e.g. Urinary Tract Infections (UTIs).

Sindh

- Sindh reported maximum cases of ILI (n=5,243), AD (Non Cholera) (n=4,450), Malaria (n=2,456) and ALRI <5 Years (n=1,094), followed by VH (B, C & D) (n=376), suspected Cholera (n=309), B. diarrhea (n=304), Typhoid (n=269), SARI (n=127) & Rabies / Dog bite (n=82).
- District Ghotki reported the maximum cases of AD (Non Cholera), VH (B, C & D), ALRI <5 years, ILI, suspected Cholera & B. diarrhea.
- District Hyderabad reported cases of ILI, AD (Non Cholera), ALRI <5 years, suspected Cholera, Malaria, VH (B, C & D) & B. diarrhea at maximum.
- 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 & B. diarrhea.
- Shikarpur reported maximum cases of AD (Non-Cholera), VH (B, C & D), ALRI <5 years & Malaria.
- From Tharparkar, maximum cases of AD (Non-Cholera), Malaria, ILI, ALRI <5 years, Typhoid & B. diarrhea were reported.
- From Thatta, maximum cases of Malaria, AD (Non-Cholera), ILI, ALRI <5 years, VH (B, C & D), B. diarrhea & dog bite were reported.
- Maximum cases of Malaria were reported from Tharparkar and Thatta which need immediate verification, epidemiological investigation and response actions.
- Cases of Meningitis, Measles, Mumps, AFP & NT were reported which need immediate verification, epidemiological investigation and response.
- This week, similar trend was observed for Malaria, ILI and AD (Non Cholera) as compared to the previous week.
- Routine immunization needs to be strengthened to decrease disease burden of VPDs.

Figure 2: Most frequently reported cases during week 34, in comparison with pervious weeks, Sindh

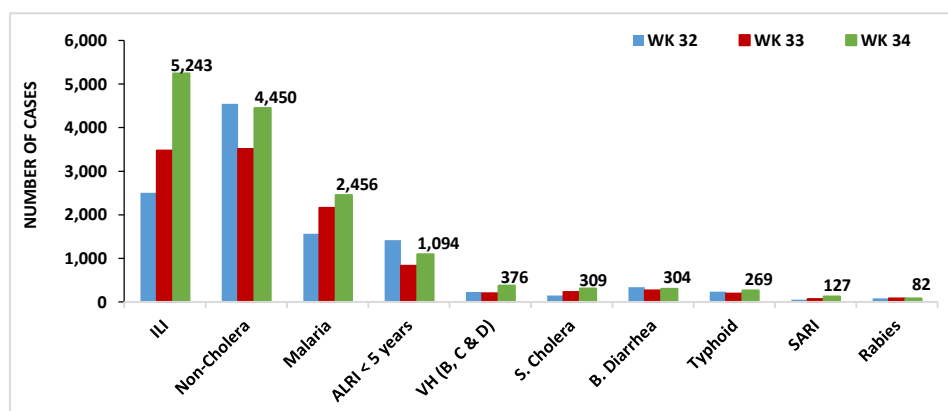
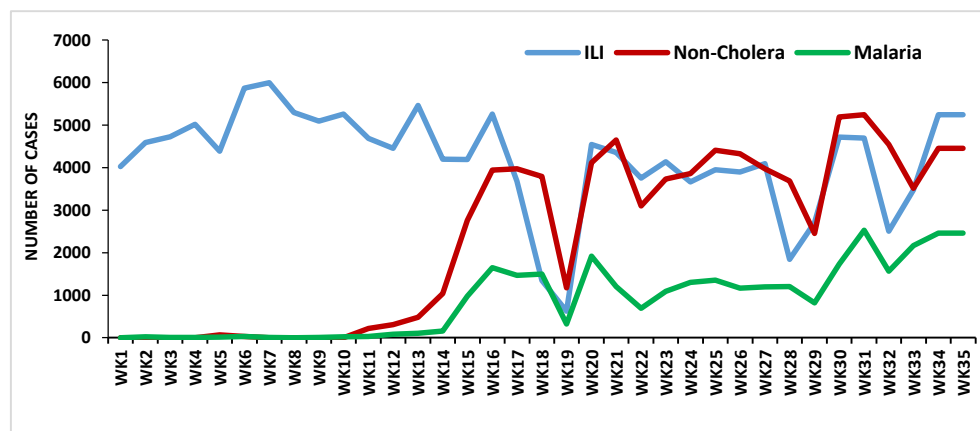


Table 2: District wise distribution of most frequently reported cases during week 34, Sindh

Diseases	Ghotki	Hyder-abad	Karachi East	Karachi Malir	Shikarpur	Thar-parkar	Thatta	Total
ILI	140	3115	3	358	0	899	728	5,243
Non-Cholera	268	1105	245	812	156	1,062	802	4,450
Malaria	65	58	41	83	16	978	1,215	2,456
ALRI < 5 years	155	242	2	180	16	285	214	1,094
VH (B, C & D)	175	55	0	26	18	13	89	376
S. Cholera	68	195	0	25	0	0	21	309
B. diarrhea	68	40	4	40	3	102	47	304
Typhoid	22	7	1	55	0	153	31	269
SARI	47	28	0	1	4	28	19	127
Rabies/ Dog bite	22	0	0	0	9	5	46	82
Meningitis	0	0	0	0	0	4	5	9
Measles	1	2	1	0	0	0	2	6
Mumps	0	2	0	1	1	0	0	4
AFP	0	0	1	0	0	2	0	3
NT	0	1	0	0	0	0	1	2

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



Balochistan

- From Balochistan, overall ILI (n=3,252), AD (Non Cholera) (n=1,698), Malaria (n=889), B. diarrhea (n=375), Typhoid (n=197), ALRI <5 years (n=174), CL (n=158), SARI (n=140), S. Cholera (n=65), and AVH (n=33) remained at maximum.
- District Gwadar reported maximum cases of ILI, AD (Non Cholera), B. diarrhea & Malaria.
- District Kech reported maximum cases of ILI, AD (Non-Cholera), Malaria, B. diarrhea, ALRI <5 years, SARI and Typhoid.
- District Khuzdar reported maximum cases of ILI, Malaria, AD (Non-Cholera), B. diarrhea and Typhoid.
- District Killa Abdullah reported most cases of ILI, AD (Non-Cholera), CL, Malaria & Typhoid.
- District Lasbella reported maximum cases for Malaria, AD (Non-Cholera), SARI, ALRI <5 years and ILI.
- District Pishin reported more cases for ILI, AD (Non-Cholera), B. diarrhea Typhoid, Malaria & suspected Cholera.
- District Quetta reported maximum cases for ILI, AD (Non-Cholera), B. diarrhea, CL and Typhoid.
- In comparison with last week, ILI cases depicted a sharp rise while cases of AD (Non Cholera) had shown a slight increase in trend.
- Cases of Leprosy and Brucellosis from Kech, while cases of Anthrax from Pishin need urgent attention, epidemiological investigation, and response actions.
- Cases of Pertussis from Khuzdar and Pishin need immediate verification, epidemiological investigation and public health response.
- Routine immunization needs to be strengthened so that the burden of VPDs can be decreased.

Figure 4: Most frequently reported cases during week 34, in comparison with previous weeks, Balochistan

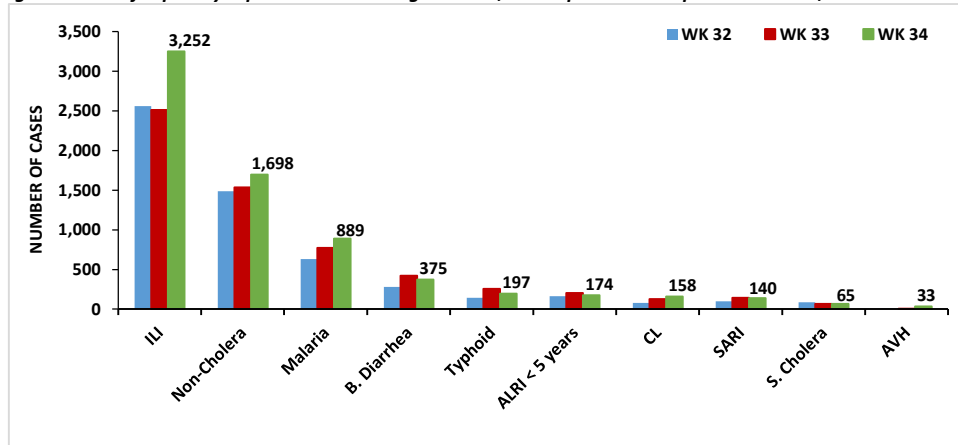
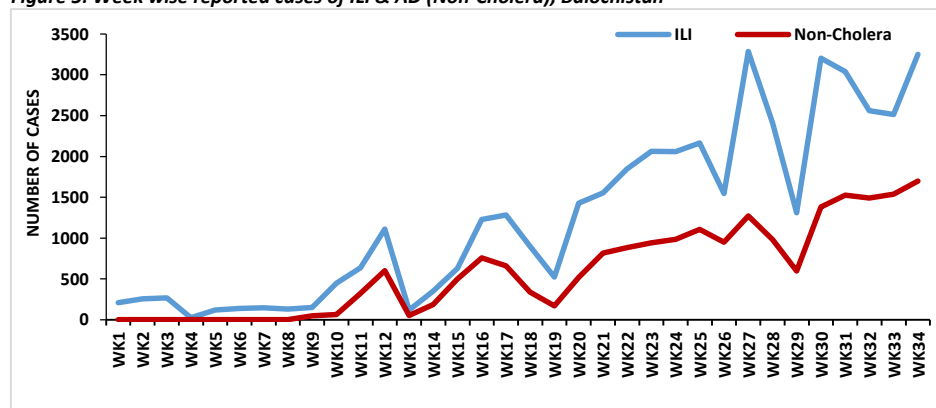


Table 3: District wise distribution of most frequently reported cases during week 34, Balochistan

Diseases	Gwadar	Kech (Turbat)	Khuzdar	Killa Abdullah	Lasbella	Pishin	Quetta	Total
ILI	525	1274	203	334	42	147	727	3,252
Non-Cholera	265	518	110	277	172	134	222	1,698
Malaria	32	344	133	26	315	25	14	889
B. diarrhea	35	77	73	0	15	100	75	375
Typhoid	7	20	63	20	14	48	25	197
ALRI < 5 years	8	66	15	0	58	27	0	174
CL	0	0	8	67	16	29	38	158
SARI	1	47	19	0	69	4	0	140
S. Cholera	0	12	13	0	16	24	0	65
Measles	3	0	12	9	4	0	0	28
Rabies	0	0	11	0	7	6	0	24
VH (B, C & D)	0	3	1	0	7	0	0	11
Pertussis	0	0	8	0	0	2	0	10
Mumps	2	1	1	0	1	2	0	7
Leprosy	0	6	0	0	0	0	0	6
Anthrax	0	0	0	0	0	5	0	5
Brucellosis	0	2	0	0	0	0	0	2

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



Khyber Pakhtunkhwa (KP)

- KP reported cases of AD (Non Cholera) (n=3,500), Malaria (n=1,982), ILI (n=765), SARI (n=724), Typhoid (n=393), ALRI <5 years (n=380), B. diarrhea (n=243), S. Cholera (n=221), AVH (A & E) (n=69), and Rabies/ Dog bite (n=64) at maximum.
- District Abbottabad reported maximum cases of AD (Non-Cholera), SARI, Typhoid & B. diarrhea.
- District Charsadda reported maximum cases of Malaria, AD (Non-Cholera), SARI, Typhoid, B. diarrhea, ALRI <5 years and suspected Cholera.
- District Haripur reported maximum cases of AD (Non-Cholera), ILI, SARI, ALRI <5 years, Typhoid, suspected Cholera, B. Diarrhea, Malaria, AVH and Dog bite/ Rabies.
- District Lakki Marwat reported maximum cases of Malaria, AD (Non-Cholera), ALRI <5 years, Typhoid, and B. diarrhea.
- Weekly cases of AD (Non Cholera) and Malaria have shown a slight increase in trend as compared to previous week i.e. 33.
- Cases of Chickenpox, Brucellosis, Mumps, Measles, NT, AFP and Anthrax need immediate verification, epidemiological investigation and response actions.
- Routine Immunization needs to be strengthened to decrease disease burden of VPDs.

Figure 6: Most frequently reported cases during week 34, in comparison with previous weeks, KP

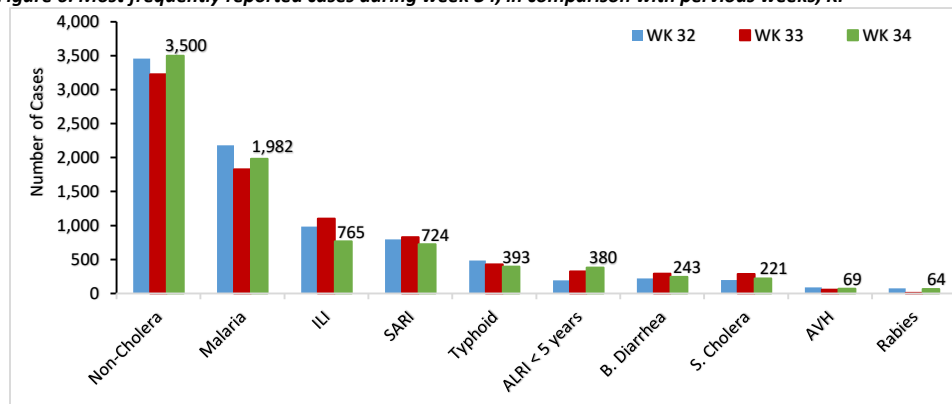
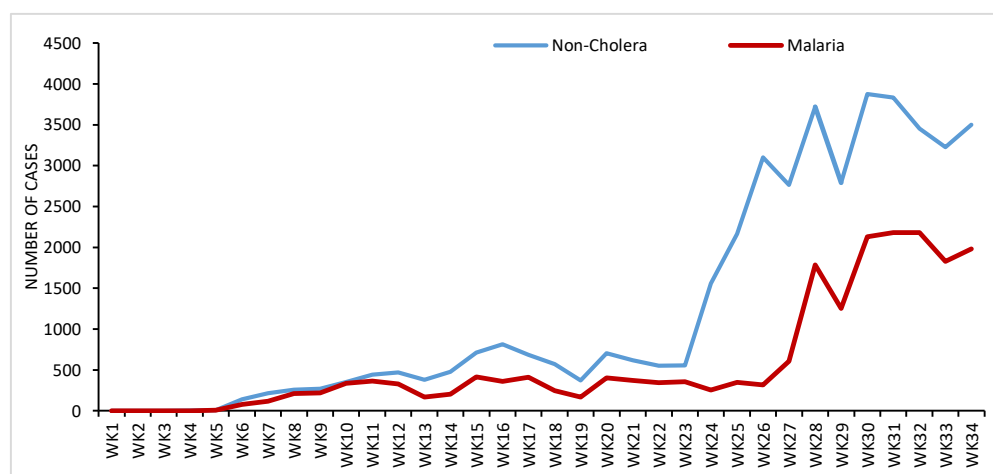


Table 4: District wise distribution of most frequently reported cases during week 34, KP

Diseases	Abbottabad	Charsadda	Haripur	Lakki Marwat	Total
Non-Cholera	954	802	1,421	323	3,500
Malaria	9	1,549	60	364	1,982
ILI	0	82	663	20	765
SARI	197	332	175	20	724
Typhoid	77	182	79	55	393
ALRI < 5 years	13	118	138	111	380
B. diarrhea	19	128	61	35	243
S. Cholera	17	117	76	11	221
AVH	9	2	54	4	69
Rabies	0	1	55	8	64
Chickenpox	0	10	12	7	29
Brucellosis	0	0	0	10	10
Mumps	0	2	5	1	8
Measles	0	2	2	2	6
NT	0	1	0	3	4
AFP	0	2	1	0	3
Anthrax	0	0	0	2	2

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



Islamabad (ICT)

- From ICT, the most frequent reported diseases were AD (Non-Cholera) (n=253), ILI (n=231), ALRI <5 years (n=37), SARI (n=21), Malaria (n=12), B. diarrhea (n=06), Typhoid (n=04), S. Cholera (n=01), Dog bite (n=01) and Chickenpox (n=01).
- During this week, a slight increase was observed for cases of AD (Non Cholera) and ILI as compared to previous week i.e. week 33.
- Case of Chickenpox need immediate verification, epidemiological investigation and response actions.
- Routine Immunization needs to be strengthened to decrease disease burden of VPDs.

Figure 8: Most frequently reported cases during week 34, in comparison with pervious weeks, ICT

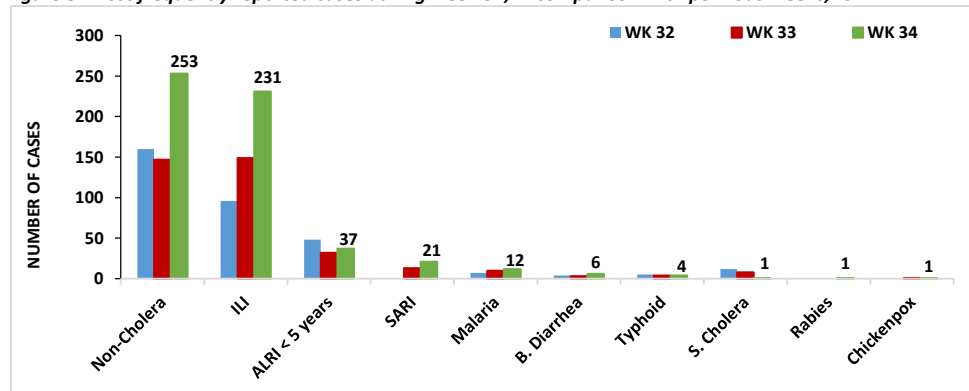


Figure 9: Week wise reported cases of ILI and AD (Non cholera), ICT

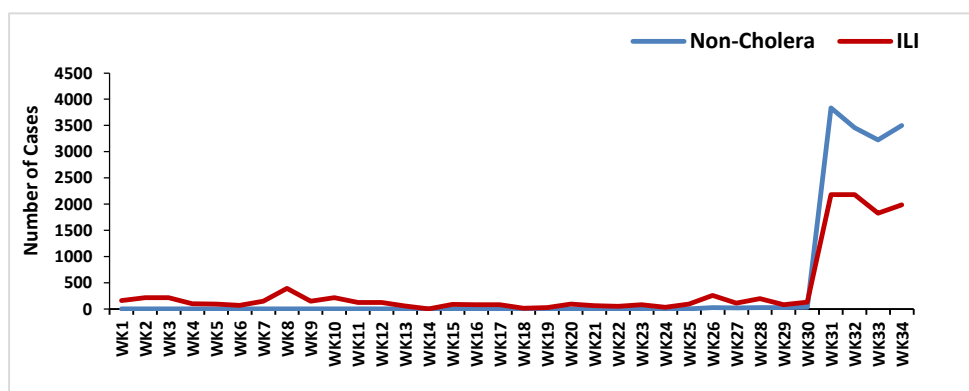


Figure 10: Most frequently reported cases during week 34, in comparison with pervious weeks, GB

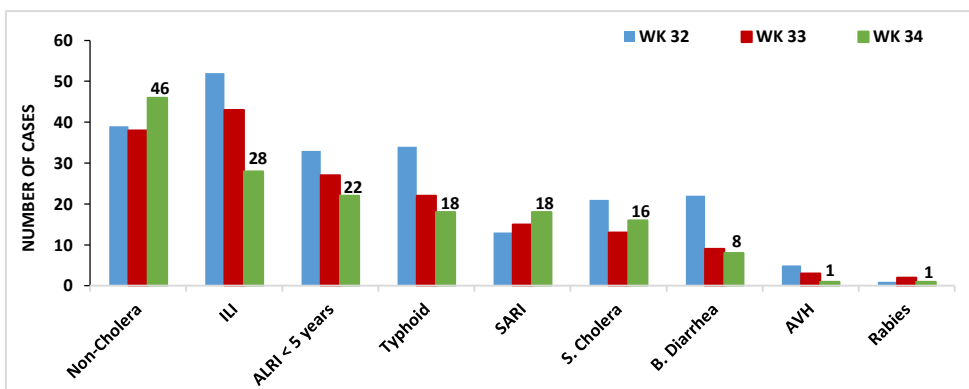
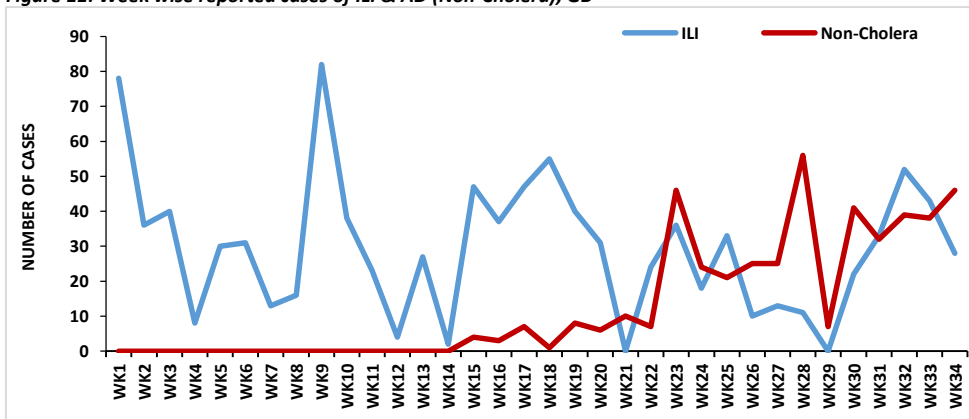


Figure 11: Week wise reported cases of ILI & AD (Non-Cholera), GB



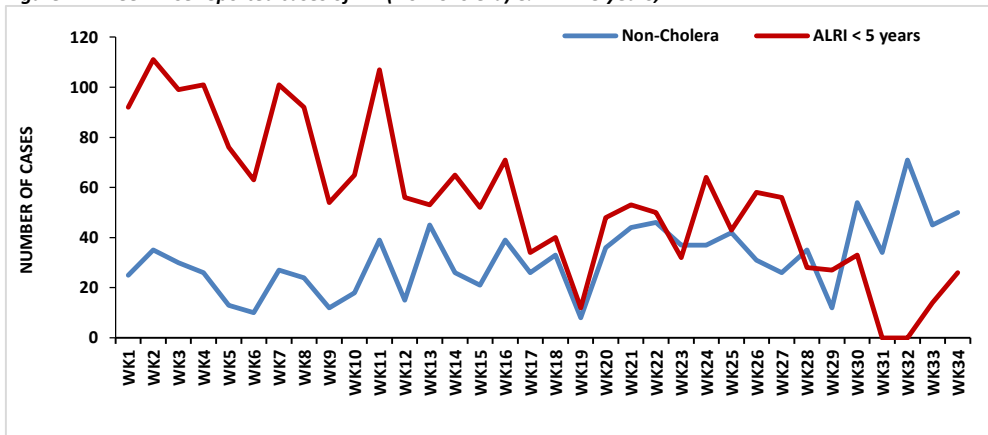
Gilgit Baltistan

- Gilgit-Baltistan reported cases of AD (Non-Cholera) (n=46), ILI (n=28), ALRI<5 years (n=22), Typhoid (n=18), SARI (n=18), S. Cholera (n=16), B. diarrhea (n=08), AVH (n=01) and Rabies/ Dog bite (n=01) this week.
- Weekly trend shows a sharp decline in cases of ILI whereas AD (Non Cholera) cases have shown an increase in trend as compared to previous week (i.e. Week-33).

Azad Jammu & Kashmir

- From AJK, Mirpur has shown a sharp increase in cases of ALRI <5 years while cases of AD (Non Cholera) shown a slight increase as compared to the previous week.

Figure 12: Week wise reported cases of AD (Non-Cholera) & ALRI <5 years, AJK



IDSR Participating Districts

- This week hundred percent (100%) data reported from Districts Haripur, Lakki Marwat, CDA, Kech, Killa Abdullah, Karachi East and Tharparkar.
- No data was received from district Kohat, Swat, Naushahro Feroze, and Umerkot.

Table 6: IDSR reporting districts

Province	Districts	Total Number of Reporting Sites (ARS/Total)	Total Number of Sites that Reported (%)
Khyber Pakhtunkhwa	Haripur	68/68	68(100%)
	Kohat	59/59	0
	Abbottabad	110/110	87(79%)
	Charsadda	61/61	46(76%)
	Lakki Marwat	39/39	39(100%)
	Swat	-	0
Azad Jammu Kashmir	Mirpur	37/37	26(73%)
Islamabad Capital Territory	ICT	18/18	16(89%)
	CDA	5/12	5(100%)
Balochistan	Gwadar	24/24	17(71%)
	Kech	40/78	40(100%)
	Khuzdar	19/136	17(90%)
	Killa Abdullah	20/50	20(100%)
	Lasbella	82/82	80(98%)
	Pishin	23/118	17(74%)
	Quetta	22/77	18(82%)
Gilgit	Hunza	30/30	28(94%)
	Nagar	22/22	10(46%)
Sindh	Hyderabad	63/63	57 (91%)
	Karachi-East	14/14	14(100%)
	Karachi-Malir	43/43	31(72%)
	Ghotki	58/58	15(26%)
	Umerkot	30/118	0
	Naushahro Feroze	52/52	0
	Tharparkar	85/236	85(100%)
	Shikarpur	18/21	5(28%)
	Thatta	27/50	12(45%)

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