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Weekly Bulletin: Integrated Disease Surveillance and Response (IDSR)

03rd March 2022

Highlights of the Epi-Week-8 (21st – 27th February 2022)

Cumulative Information

- During this week, maximum reported cases were of ILI, Acute Diarrhea (Non Cholera), SARI, ALRI <5 years, Malaria, B. Diarrhea, Typhoid, AWD (S. Cholera), Rabies/Dog bite & VH (B, C & D),
- In comparison with previous week i.e. Week-07, all reported diseases depicted a downward trend.
- Burden of VPD cases is increasing from all over Pakistan which need immediate attention of Immunization program to strengthen immunization to control the spread of VPDs.
- Cases of Rabies/Dog bite are regularly reported. An immediate attention is required by adopting a multi-sectoral One-Health approach to address the issue.
- Reporting of cases of Bloody diarrhea, AWD (S. Cholera) and Typhoid cases from KP, Sindh, Punjab and Balochistan is increasing. Public health measures need to be implemented on priority basis to prevent such illnesses.
- Cutaneous Leishmaniasis cases are reported from KP and Balochistan. Timely response in terms of old and new cases categorization is essential to prevent further spread of illness.

Figure 1: Most frequently reported cases during week 8, in comparison with previous weeks, Pakistan

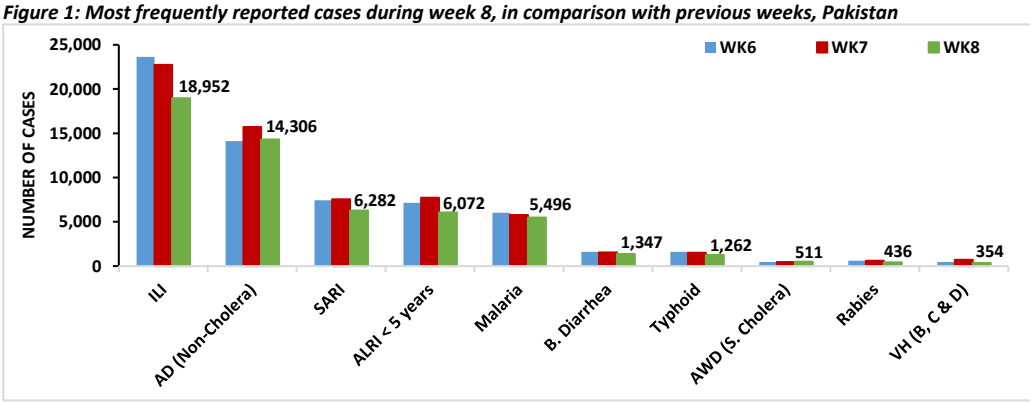


Table 1: Province/Area wise distribution of most frequently reported cases during week 8, Pakistan

Diseases	AJK	Balochistan	GB	ICT	KP	Punjab	Sindh	Total
ILI	51	2,853	22	858	6,154	590	8,424	18,952
AD (Non-Cholera)	42	1,152	1	227	4,594	1,590	6,700	14,306
SARI	2	413	1	8	5,551	195	112	6,282
ALRI < 5 years	19	563	13	149	2,633	343	2,352	6,072
Malaria	6	397	0	0	1,890	250	2,953	5,496
B. Diarrhea	2	270	3	5	382	44	641	1,347
Typhoid	0	155	0	1	483	181	442	1,262
AWD (S. Cholera)	0	18	1	0	167	182	143	511
Rabies / Dog bite	0	30	0	0	188	72	146	436
VH (B, C & D)	0	34	0	0	52	33	235	354
Mumps	0	7	0	2	113	4	20	146
CL	0	62	0	0	71	0	2	135
Measles	0	21	0	0	52	3	43	119
AVH (A & E)	0	1	0	0	69	17	27	114
Chickenpox/ Varicella	0	14	0	3	51	5	40	113
Pertussis	0	12	0	2	39	13	0	66
Gonorrhea	0	14	0	0	4	12	23	53
Leprosy	0	0	0	0	0	35	0	35
Dengue	0	0	0	0	0	4	22	26
Meningitis	0	1	0	0	4	2	6	13

Points of Attention

- **Malaria, and Typhoid cases are continuously reported. Due shift of weather to summer, more cases can be expected. An early targeted public health measures in hotspot areas should be done to prevent cases.**
- Community awareness on water, sanitation and hygiene (WASH) practices should be carried out.
- Routine immunization is affected due to pandemic control activities, and regular Polio campaigns, resultantly cases of VPDs are increasing. **Therefore, strengthened coordination with EPI is needed for reduction in the cases.**
- **STI cases especially Gonorrhea, cases are regularly reported mainly from Balochistan and Sindh. Public health response actions need to be implemented in the affected areas after verification of cases.**
- Cases of dog bite is increasing across Pakistan. There is need to conduct community awareness sessions regularly, and also prepare and implement a comprehensive Rabies control plan based on One Health approach at provincial level.
- Leprosy cases should be investigated for confirmation, and public health measure should be implemented.
- **IDSR focal persons may share alert verification and outbreak investigation reports.** This will 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=8,424), AD (Non Cholera) (n=6,700), Malaria (n=2,953), ALRI <5 Years (n=2,352), B. diarrhea (n=641), Typhoid (n=442), VH (B, C &D) (n=235), Rabies/ Dog bite (n=146), AWD (S. Cholera) (n=143) & SARI (n=112).
- Ghotki reported maximum cases of ILI, & ALRI <5 years.
- Hyderabad reported maximum cases of ILI, AD (Non Cholera), ALRI <5 years & B. diarrhea.
- Kamber reported maximum cases of AD (Non Cholera), Malaria & ALRI <5 years.
- Karachi East reported maximum cases of AD (Non Cholera).
- From Karachi Malir, maximum cases reported were of AD (Non Cholera), ILI, & ALRI <5 years.
- Larkana reported maximum cases of Malaria & AD (Non Cholera).
- N. Feroze reported maximum cases of ILI, Malaria, AD (Non Cholera) and ALRI <5 years.
- Shikarpur reported maximum cases of AD (Non Cholera).
- Tharparkar reported maximum cases of ILI, AD (Non-Cholera), Malaria, ALRI <5 years, B. diarrhea & Typhoid.
- Thatta reported maximum cases of AD (Non Cholera), Malaria, ILI & ALRI <5 years.
- Umerkot reported cases of Malaria, AD (Non Cholera) & ALRI <5 years at maximum.
- Diarrheal disease and food borne diseases need special attention to prevent further spread.
- Cases of AFP & HIV/AIDS need immediate verification & public health response.
- This week, cases of ILI, ALRI <5 years & AD (Non Cholera) declined as compared to previous week.

(**Note:** NR= Not Reported)

Figure 2: Most frequently reported cases during week 8, in comparison with previous weeks, Sindh

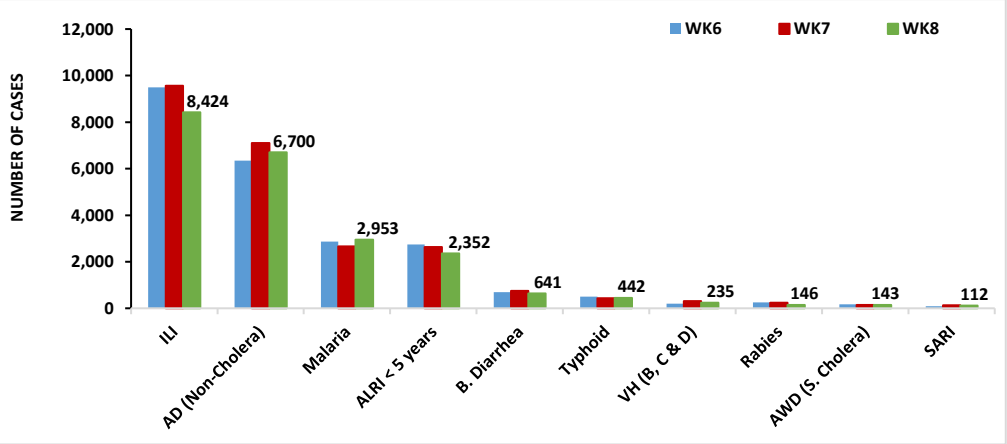
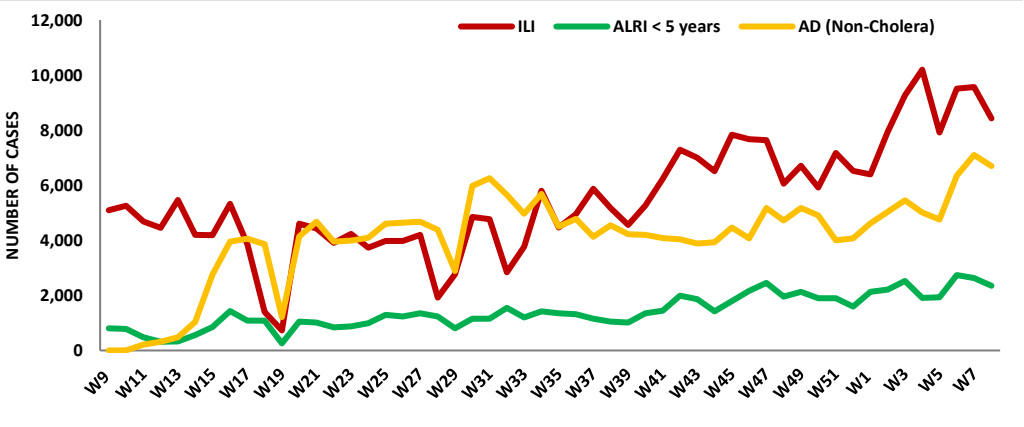


Table 2: District wise distribution of most frequently reported cases during week 8, Sindh

Districts	Ghotki	Hydera-bad	Kam-ber	Kar-East	Kar-Malir	Lar-kana	N. Feroze	Shikar-pur	Thar-parkar	Thatta	Umer-kot
ILI	610	4,110	0	12	428	0	1,019	5	2,065	175	0
AD (Non-Cholera)	101	1,953	323	215	928	365	313	249	1,581	348	324
Malaria	28	32	320	33	114	533	353	123	707	334	376
ALRI < 5 years	154	387	174	3	301	73	159	75	673	167	186
B. Diarrhea	35	117	57	4	71	66	47	47	127	37	33
Typhoid	13	20	51	0	83	34	87	0	99	34	21
VH (B, C & D)	66	54	16	0	15	18	12	5	27	8	14
Rabies / Dog bite	47	1	0	0	32	1	0	61	4	0	0
AWD (S. Cholera)	19	50	0	0	50	8	1	0	0	14	1
SARI	0	26	5	0	30	4	3	8	30	4	2
Measles	0	1	0	1	4	0	0	3	32	2	0
Chickenpox/ Varicella	1	9	2	7	4	0	0	4	12	1	0
AVH (A&E)	5	6	0	0	0	0	0	0	15	1	0
Gonorrhea	0	NR	2	0	4	0	4	0	12	1	0
Dengue	0	NR	0	0	0	0	0	0	22	0	0
Mumps	2	2	0	1	8	0	0	1	3	1	2
AFP	0	NR	1	0	0	0	0	1	6	0	0
Meningitis	0	NR	0	0	0	0	0	0	6	0	0
Syphilis	0	NR	1	0	0	0	0	0	1	1	0
HIV/AIDS	0	NR	0	0	0	3	0	0	0	0	0

Figure 3: Week wise reported cases of ILI, ALRI <5 years & AD (Non Cholera), Sindh



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Balochistan

- From Balochistan overall ILI (n=2,853), AD (Non Cholera) (n=1,152), ALRI <5 years (n=563), SARI (n=413), Malaria (n=397), B. diarrhea (n=270), Typhoid (n=155), CL (n=62), VH (B, C & D) (n=34) & Rabies/Dog bite (n=30) remained at maximum.
- District Kech reported cases of ILI, AD (Non Cholera) & ALRI <5 years at maximum.
- District Khuzdar reported maximum cases of ILI.
- District Killa Abdullah reported maximum cases of AD (Non Cholera), Malaria & ALRI <5 years.
- District Lasbella reported maximum cases for ALRI <5 years.
- District Naseerabad reported ILI cases at maximum.
- District Pishin reported cases for ILI & AD (Non Cholera) at maximum.
- District Quetta reported cases of ILI & SARI at maximum.
- A case of Anthrax from Lasbella needs urgent attention and response.
- Cases of VPDs are reported regularly, and therefore, needs strengthening of routine immunization system.
- In comparison with last week, cases of ILI, SARI & ALRI <5 years have shown a downward trend.

Figure 4: Most frequently reported cases during week 8, in comparison with previous weeks, Balochistan

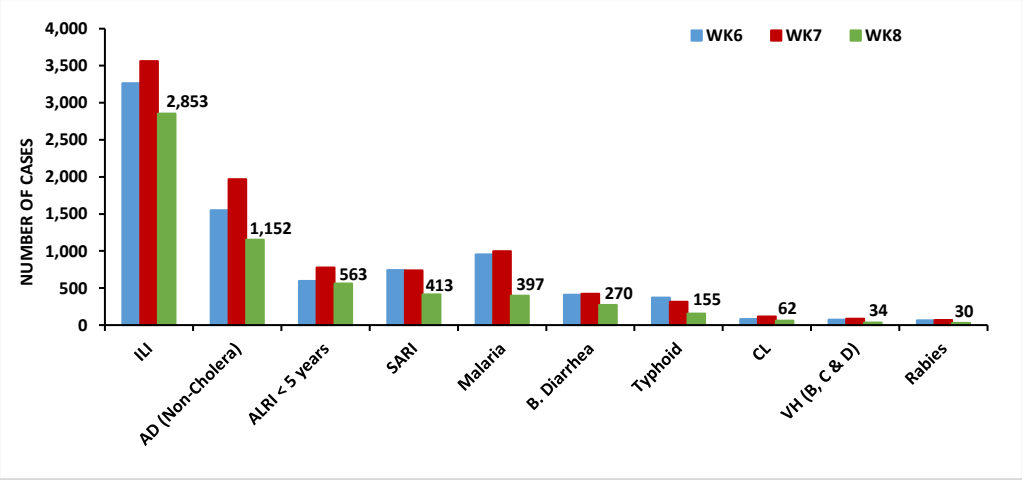
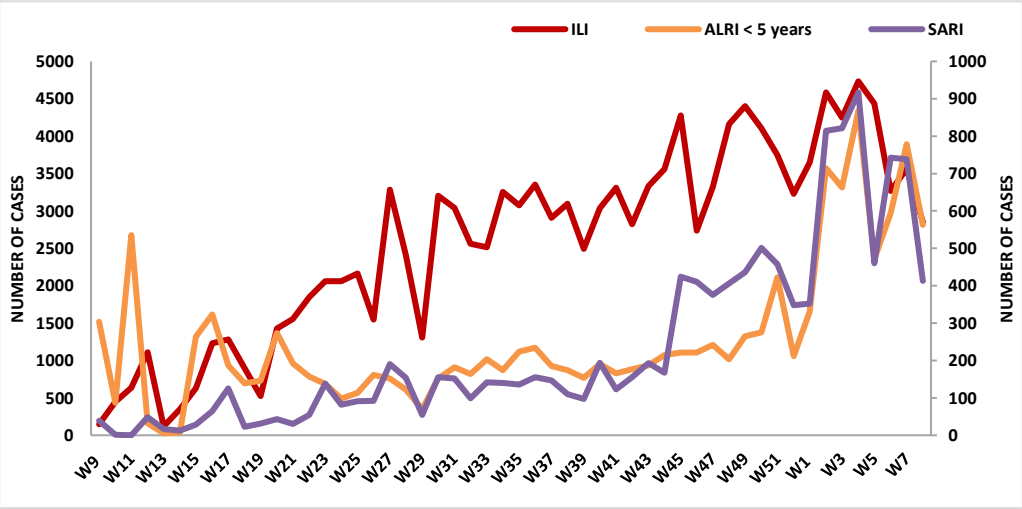


Table 3: District wise distribution of most frequently reported cases during week 8, Balochistan

Diseases	Kech Turbat	Khuzdar	Killa Abdullah	Lasbella	Naseerabad	Pishin	Quetta	Total
ILI	1,460	103	76	28	366	560	260	2,853
AD (Non-Cholera)	492	78	270	51	51	173	37	1,152
ALRI < 5 years	87	1	163	205	45	49	13	563
SARI	62	3	80	21	9	0	238	413
Malaria	54	50	171	82	7	12	21	397
B. Diarrhea	72	29	36	13	29	58	33	270
Typhoid	9	38	23	36	17	29	3	155
CL	0	7	18	15	12	10	0	62
VH (B, C & D)	0	2	19	8	0	5	0	34
Rabies / Dog bite	0	17	6	3	4	0	0	30
Measles	0	4	16	1	0	0	0	21
AWD (S. Cholera)	0	0	6	12	0	0	0	18
Chickenpox/ Varicella	0	2	6	6	0	0	0	14
Gonorrhea	0	5	0	3	6	0	0	14
Pertussis	0	3	1	8	0	0	0	12
Mumps	1	2	1	0	3	0	0	7
Anthrax	0	0	0	1	0	0	0	1

Figure 5: Week wise reported cases of ILI, SARI & ALRI <5 years, Balochistan



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Khyber Pakhtunkhwa (KP)

- KP reported cases of ILI (n=6,154), SARI (n=5,551), AD (Non Cholera) (n=4,594), ALRI <5 years (n=2,633), Malaria (n=1,890), Typhoid (n=483), B. diarrhea (n=382), Rabies/Dog bite (n=188), AWD (S. Cholera) (n=167), &Mumps (n=113) at maximum.
- District Abbottabad reported maximum cases of AD (Non-Cholera).
- District Charsadda reported maximum cases of Malaria, AD (Non-Cholera), ILI, SARI, Typhoid, B. diarrhea & ALRI <5 years.
- Khyber district reported ILI at maximum.
- District Kohat reported maximum cases of ILI, AD (Non Cholera), SARI & Malaria.
- District Lakki Marwat reported maximum cases of Malaria, ALRI <5 years & AD (Non-Cholera).
- District Malakand reported maximum cases of ALRI <5 years, AD (Non Cholera), ILI & SARI.
- District Mardan reported cases of ILI, AD (Non Cholera), ALRI <5 years, Malaria & SARI.
- District Swabi reported maximum cases of SARI, ILI, AD (Non Cholera) & ALRI <5 years.
- District Swat reported maximum cases of SARI, ILI, AD (Non Cholera), ALRI <5 years & Typhoid.
- Cases of HIV/AIDS reported from Lakki Marwat need immediate verification and public health response.
- AFP case from Charsadda need verification and further workup accordingly.
- Weekly cases of ILI, SARI & ALRI <5 years decreased as compared to the last week i.e. week 07.

Figure 6: Most frequently reported cases during week 8, in comparison with previous weeks, KP

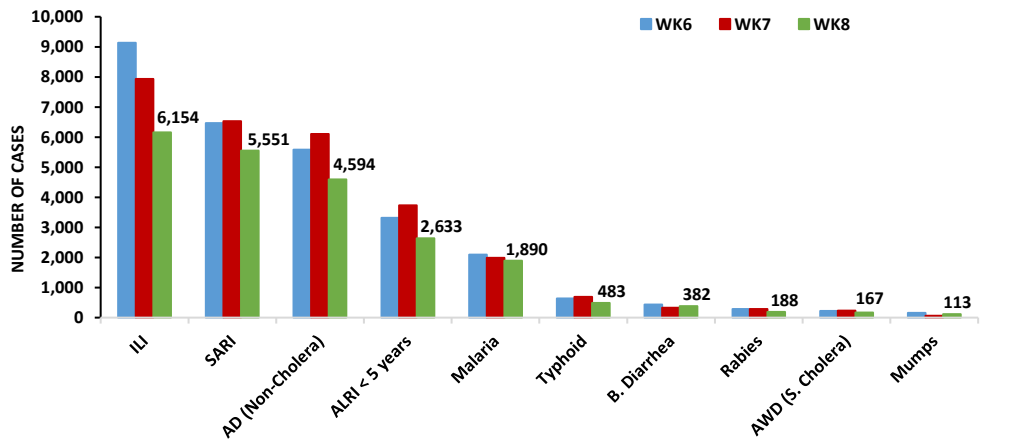
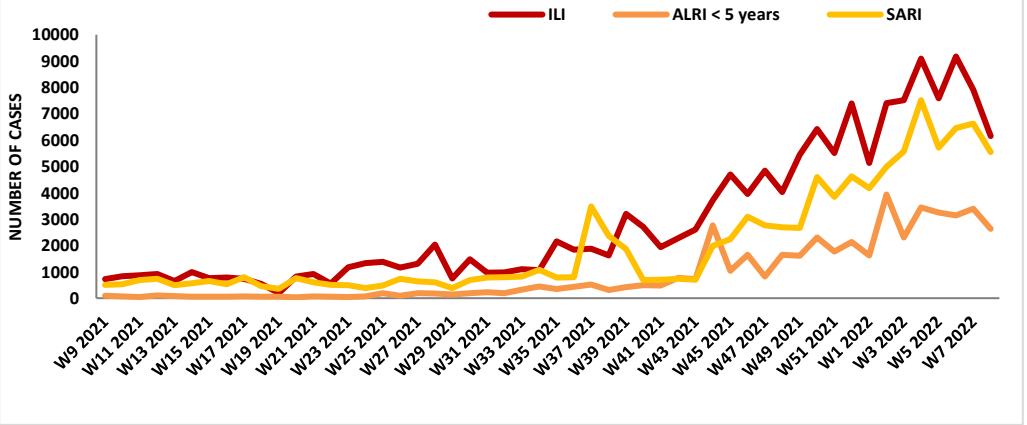


Table 4: District wise distribution of most frequently reported cases during week 8, KP

Diseases	Abbott-abad	Charsadda	Khyber	Kohat	Lakki Marwat	Malakand	Mardan	Swabi	Swat
ILI	0	287	601	584	22	530	1,583	722	1,825
SARI	34	243	5	252	5	99	282	2,003	2,628
AD (Non-Cholera)	394	548	64	293	382	589	620	606	1,098
ALRI < 5 years	14	111	20	70	390	703	582	428	315
Malaria	0	772	8	131	513	74	359	26	7
Typhoid	7	180	20	9	29	36	20	49	133
B. Diarrhea	3	128	26	40	11	49	27	40	58
Rabies / Dog bite	4	0	19	26	61	3	12	16	47
AWD (S. Cholera)	4	44	0	27	2	4	33	28	25
Mumps	0	1	10	0	6	44	19	12	21
CL	0	0	47	16	0	7	1	0	0
AVH (A & E)	0	0	9	0	0	13	2	10	35
VH (B, C & D)	0	0	9	8	0	0	0	28	7
Measles	0	12	5	0	8	7	4	14	2
Chickenpox/ Varicella	0	0	8	2	0	25	7	8	1
Pertussis	0	0	10	1	0	0	8	14	6
HIV/AIDS	0	0	0	0	37	0	0	0	0
AFP	0	1	0	0	0	1	0	1	1
Brucellosis	0	0	0	0	0	0	0	1	2
Diphtheria (Probable)	0	0	0	0	0	0	1	0	0

Figure 7: Week wise reported cases ILI, SARI & ALRI <5 years, KP



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Islamabad (ICT)

- From ICT, the most frequent reported diseases were ILI (n=858), AD (Non-Cholera) (n=227), ALRI <5 years (n=149), SARI (n=08), B. diarrhea (n=05), Chickenpox (n=03), Mumps (n=02), Pertussis (n=02) &. Typhoid (n=01).
- During this week, an upward trend observed for ILI cases whereasa sharp decline in cases of ALRI <5 years have been observed as compared to last week i.e. Week 07.

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

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

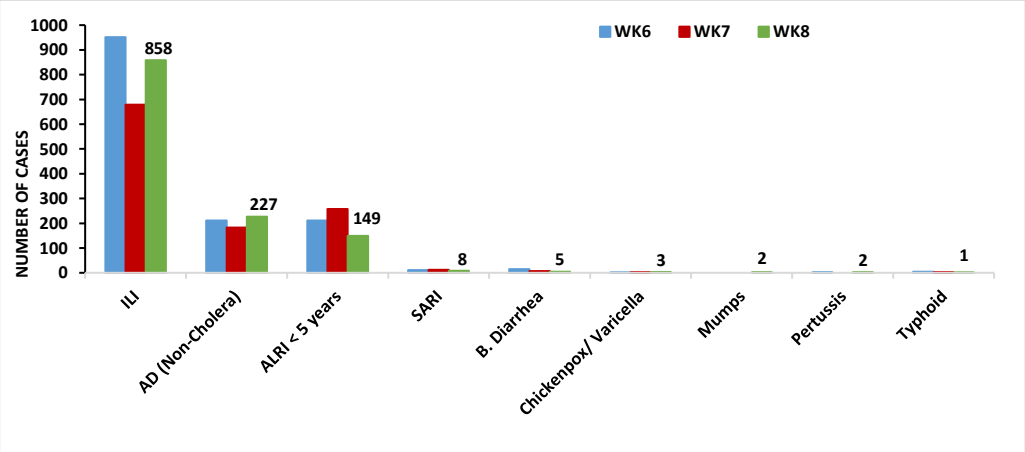
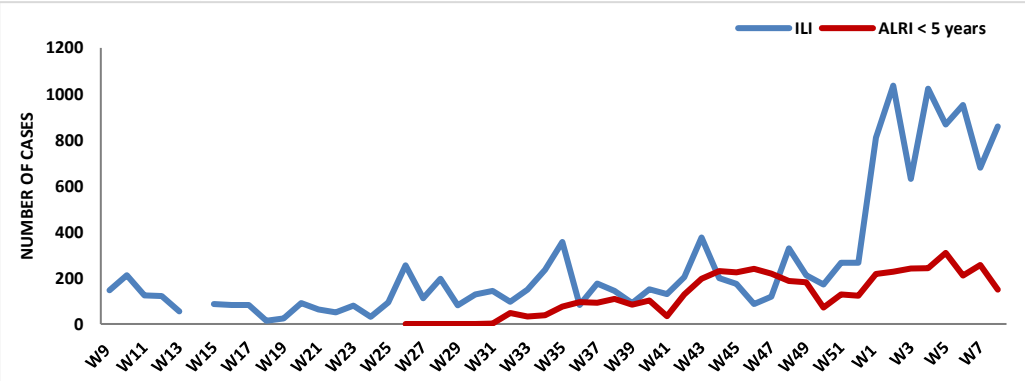


Figure 9: Week wise reported cases of ILI & ALRI <5 years, ICT



Gilgit Baltistan

- Gilgit-Baltistan reported cases of ILI (n=22), ALRI <5 years (n=13), B. diarrhea (n=03), AD (Non Cholera) (n=01), AWD (S. Cholera) (n=01) & SARI (n=01) this week.
- Weekly trend for cases of ILI & ALRI <5 years depicted a sharp decline as compared to previous week i.e. Week-07.

(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 8, in comparison with previous weeks, GB

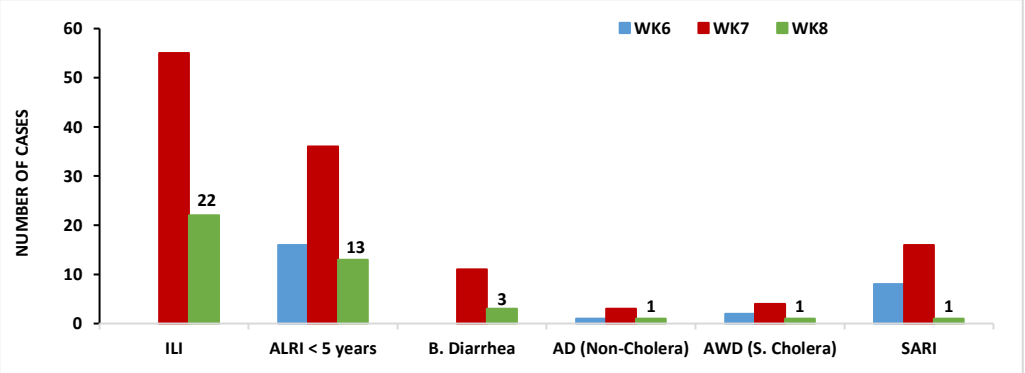
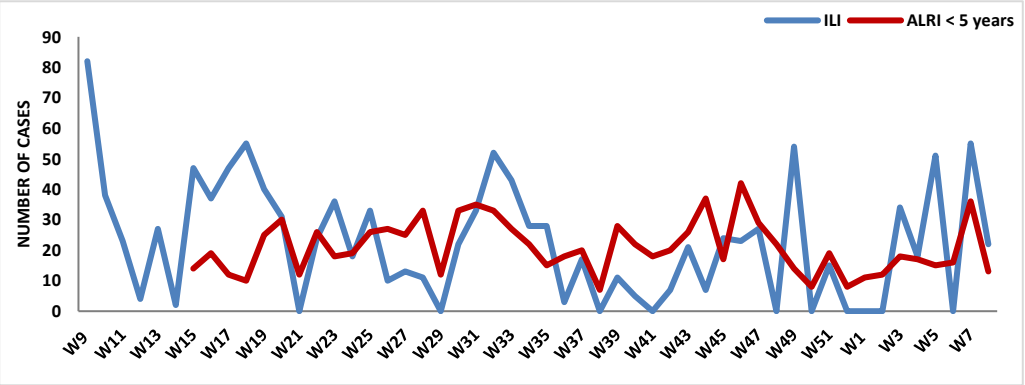


Figure 11: Week wise reported cases of ILI & ALRI < 5 years, GB



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AJK

- District Mirpur reported cases of ILI (n=51), AD (Non Cholera) (n=42), ALRI <5 years (n=19), Malaria (n=06), B. diarrhea (n=02) & SARI (n=02) at maximum this week.
- Weekly trend of ILI cases have shown a sharp decline compared to last week.

Punjab

- This week Punjab reported cases of AD (Non Cholera) (n=1,590), ILI (n=590), ALRI <5 years (n=343), Malaria (n=250), SARI (n=195), AWD (S. Cholera) (n=182), Typhoid (n=181), Rabies / Dog bite (n=72), B. diarrhea (n=44) and Leprosy (n=35) at maximum.
- Cases of AD (Non Cholera), AWD (S. Cholera), Typhoid & B. diarrhea have been reported which need immediate verification and public health response.
- Cases of Leprosy were reported which need urgent attention & further workup accordingly.
- There is a need to strengthen the routine immunization to decrease burden of VPDs.
- Weekly trend for cases of ILI & Typhoid has shown an incline whereas cases of ALRI <5 years decreased this week as compared to previous week i.e. Week-05.

Figure 12: Most frequently reported cases during week 8, in comparison with previous weeks, AJK

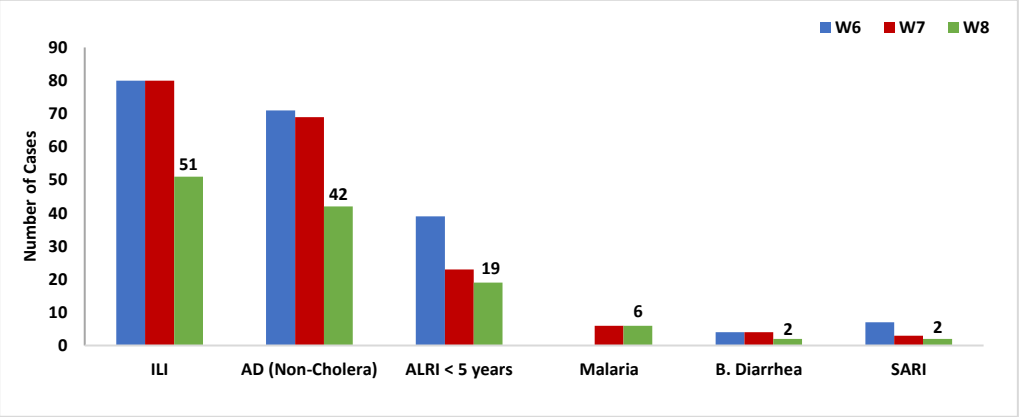


Figure 13: Week wise reported cases of ILI & ALRI <5 years, AJK

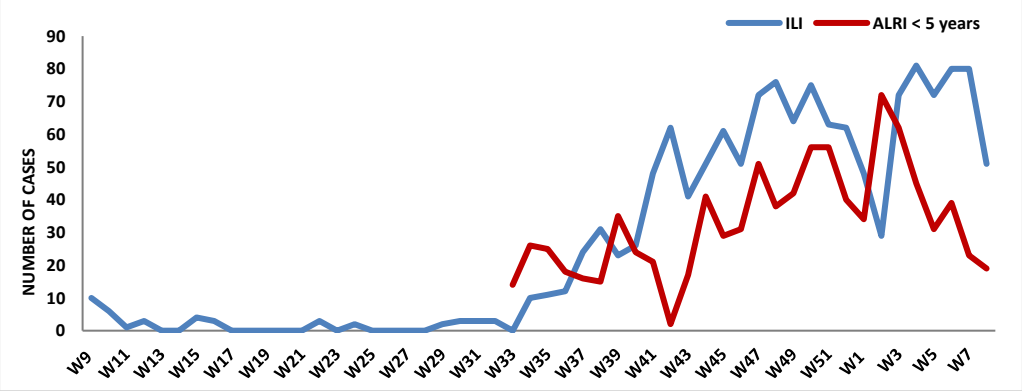


Figure 14: Most frequently reported cases during week 8, in comparison with previous weeks, Punjab

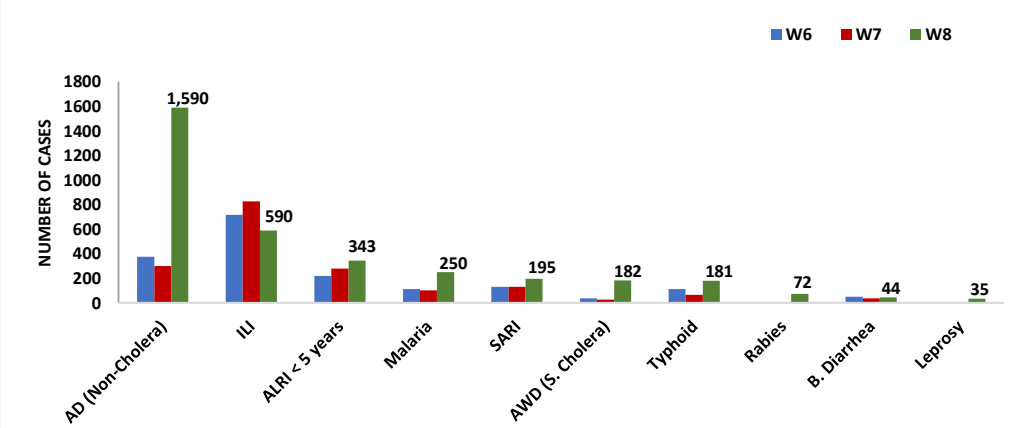
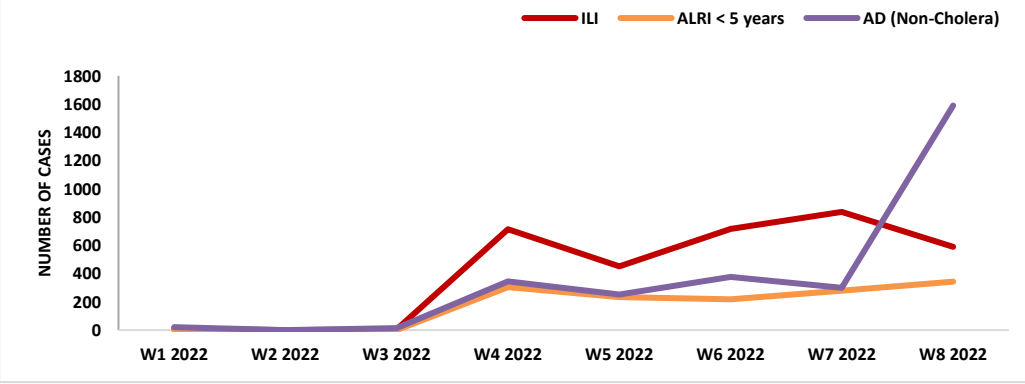


Figure 15: Week wise reported cases of ILI, ALRI <5 years & AD (Non Cholera), Punjab



IDSR Participating Districts

- This week 13% (05/40) of the districts reported hundred percent (%) data. These district are Lakki Marwat, ICT (Islamabad), Khuzdar, Lasbella & Tharparkar.
- District Zhob reported data after the set timeline.
- Districts Haripur, Gwadar, Sibi & Jaffarabad did not report data this week.

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	0
	Kohat	60/60	59 (99%)
	Abbottabad	110/110	93 (85%)
	Charsadda	61/61	51 (84%)
	Lakki Marwat	49/49	49 (100%)
	Swat	77/77	74 (97%)
	Malakand	78/78	37 (48%)
	Swabi	63/63	60 (96%)
	Khyber	63/63	10 (16%)
	Mardan	65/65	37 (57%)
Azad Jammu Kashmir	Mirpur	37/37	30 (81%)
Islamabad Capital Territory	ICT	18/18	18 (100%)
	CDA	9/12	8 (89%)
Balochistan	Gwadar	24/24	0
	Kech	44/78	39(89%)
	Khuzdar	20/136	20(100%)
	Killa Abdullah	30/50	28 (94%)
	Lasbella	85/85	85(100%)
	Pishin	23/118	16 (70%)
	Quetta	22/77	13 (59%)
	Sibi	42/42	0
	Zhob	37/37	24 (65%)
	Jaffarabad	47/47	0
	Naserabad	45/45	20 (45%)
Gilgit Baltistan	Hunza	30/30	29 (97%)
	Nagar	05/22	03 (60%)
Sindh	Hyderabad	63/63	57 (91%)
	Karachi-East	14/14	14 (1%)
	Karachi-Malir	43/43	33(77%)
	Ghotki	58/58	7 (12%)
	Umerkot	30/118	16 (54%)
	Naushahro Feroze	52/52	22 (43%)
	Tharparkar	93/236	93 (100%)
	Shikarpur	32/32	14 (44%)
	Thatta	28/50	29 (1.4%)
	Larkana	149/149	33 (23%)
	Kamber	101/101	64 (64%)
Punjab	Bahawalpur	91/91	41 (45%)
	Muzaffargarh	117/117	36 (32%)
	Rajanpur	55/55	45 (82%)

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