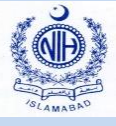




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Weekly Bulletin: Integrated Disease Surveillance and Response (IDSR)

17th March 2022

Highlights of the Epi-Week-10 (07– 13 March 2022)

Cumulative Information

- During this week, most frequent reported cases were of ILI, Acute Diarrhea (Non Cholera), SARI, ALRI <5 years, Malaria, Typhoid, B. Diarrhea, Rabies/ Dog bite, VH (B, C & D) & AWD (S. Cholera).
- In contrast to previous week i.e. Week-09, all reported diseases depicted a downward trend while cases of AD (Non Cholera) & SARI increased.
- Cases of VPDs reported from all over Pakistan, therefore, an immediate attention in terms of strengthened immunization activities is required.
- There is persistent reporting of Bloody diarrhea, AWD (S. Cholera) and Typhoid cases from KP, Sindh, Punjab and Balochistan. Public health measures need to be implemented on priority basis to prevent such illnesses.
- Cases of Rabies/Dog bite are regularly reported. A strong multi-sectoral One-Health approach is mandatory to address the issue.
- Cases of HIV/ AIDS are reported from KP & Sindh, which need immediate verification and response accordingly.
- Cutaneous Leishmaniasis cases are reported from KP, Sindh and Balochistan. Categorization as new and old cases should be done for response and this will help to manage rise in further cases.

Figure 1: Most frequently reported cases during week 10, in comparison with previous weeks, Pakistan

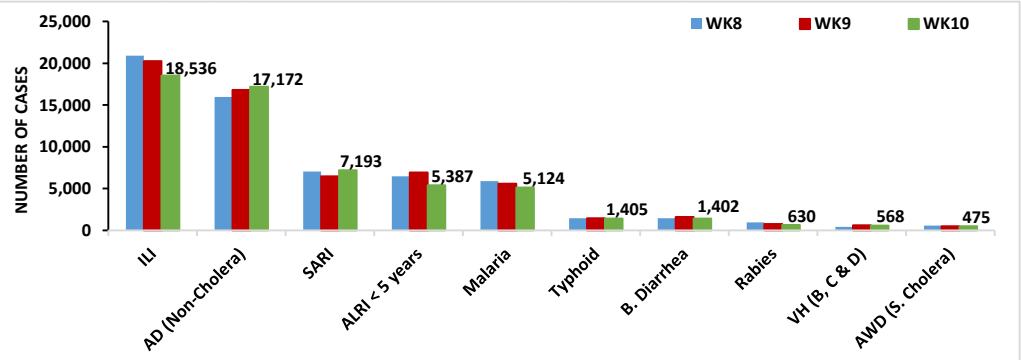


Table 1: Province/ Area wise distribution of most frequently reported cases during week 10, Pakistan

Diseases	AJK	Balochistan	GB	ICT	KP	Punjab	Sindh	Total
ILI	58	3,560	15	602	7,585	994	5,722	18,536
AD (Non-Cholera)	67	1,724	0	164	6,147	1,521	7,549	17,172
SARI	0	597	4	8	6,399	72	113	7,193
ALRI < 5 years	36	434	16	178	2,363	472	1,888	5,387
Malaria	3	414	0	0	1,903	161	2,643	5,124
Typhoid	0	209	0	5	612	147	432	1,405
B. Diarrhea	4	333	2	4	369	49	641	1,402
Rabies / Dog bite	0	47	0	0	454	3	126	630
VH (B, C & D)	0	18	0	0	92	222	236	568
AWD (S. Cholera)	0	41	1	1	188	140	104	475
CL	0	135	0	0	75	0	55	265
Mumps	0	9	0	0	123	8	17	157
Chickenpox/ Varicella	0	11	0	1	68	8	66	154
Measles	0	32	0	0	73	1	36	142
AVH (A & E)	0	2	0	0	87	9	24	122
Gonorrhea	0	28	0	0	6	10	28	72
Pertussis	0	11	0	0	37	10	3	61
Leprosy	0	2	0	0	41	0	17	60
Brucellosis	0	0	0	0	59	0	0	59
AFP	0	0	0	0	47	0	4	51
Anthrax	0	2	0	0	31	1	2	36
Syphilis	0	0	0	0	1	4	19	24
HIV/AIDS	0	0	0	0	4	0	7	11

Points of Attention

- 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.**
- Malaria, and Typhoid cases are continuously reported especially from Balochistan and Sindh. It is emphasized that hotspots areas should be identified for epidemiological investigations and timely response.**
- It is proposed to enhance community awareness on water, sanitation and hygiene (WASH) practices.
- 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 are increasing across Pakistan. There is a need to conduct awareness sessions regularly, and also prepare and implement a Rabies control plan based on One Health approach at provincial level.
- IDSR focal persons may share alert verification and outbreak investigation reports.** This will help to prepare details on disease burden, circulating pathogens and devising national strategies for prevention & control of diseases.

Sindh

- Sindh reported most frequent reported cases of AD (Non Cholera) (n=7,549), ILI (n=5,722), Malaria (n=2,643), ALRI <5 Years (n=1,888), B. diarrhea (n=641), Typhoid (n=432), VH (B, C & D) (n=236), Rabies/ Dog bite (n=126), SARI (n=113) & AWD (S. Cholera) (n=104).
- Ghotki reported the maximum cases of VH (B, C & D).
- Hyderabad reported maximum cases of AD (Non Cholera), ILI, ALRI <5 years & B. diarrhea.
- Kamber reported maximum cases of AD (Non Cholera), Malaria, ALRI <5 years & B. diarrhea.
- From Karachi East, maximum cases reported were of AD (Non Cholera).
- From Karachi Malir, maximum cases reported were of AD (Non Cholera), ILI & ALRI <5 years.
- From Larkana, cases of Malaria, AD (Non Cholera) & ALRI <5 years were reported at maximum.
- Naushahro Feroze reported maximum cases of ILI, AD (Non Cholera), Malaria and ALRI <5 years.
- Shikarpur reported AD (Non Cholera) & Malaria cases at maximum.
- From Tharparkar, maximum cases of ILI, AD (Non-Cholera), Malaria, ALRI <5 years & B. diarrhea were reported.
- From Thatta, cases of AD (Non Cholera), ALRI <5 years & Malaria were reported at maximum.
- 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 10, in comparison with previous weeks, Sindh

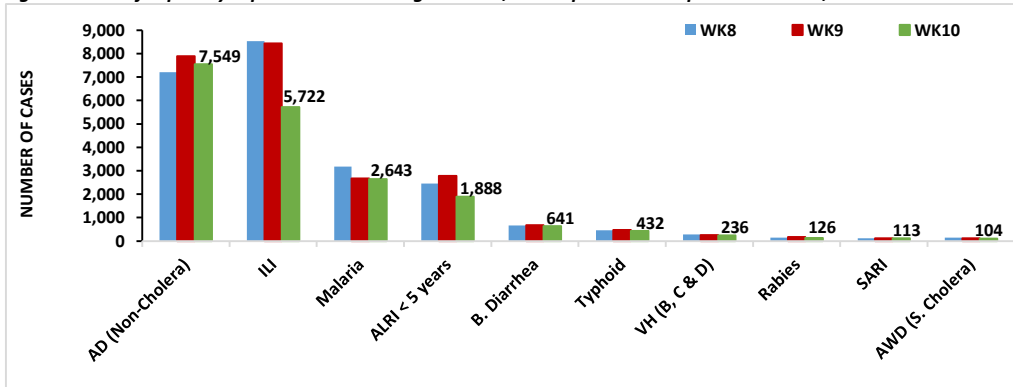
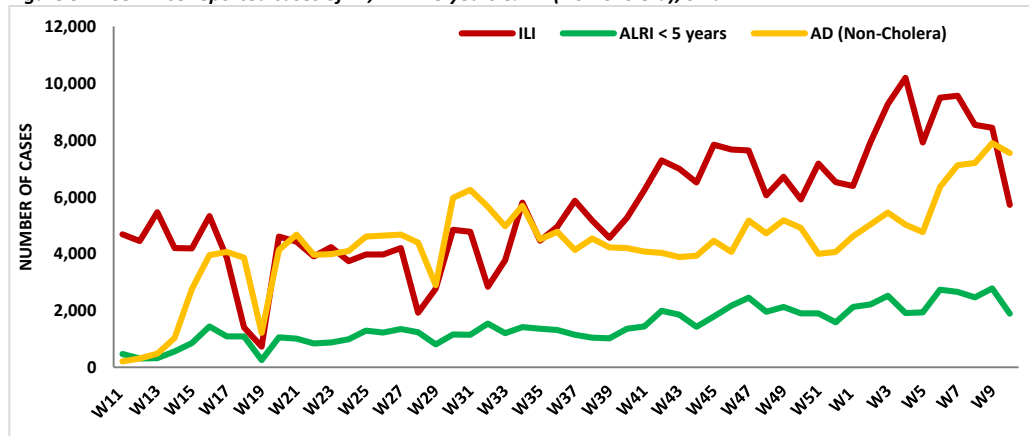


Table 2: District wise distribution of most frequently reported cases during week 10, Sindh

Districts	Ghotki	Hyderabad	Kamber	Kar-East	Kar-Malir	Larkana	N. Feroze	Shikarpur	Tharparkar	Thatta
AD (Non-Cholera)	25	2,643	555	163	978	449	383	329	1,666	358
ILI	0	2,431	NR	30	437	0	1,060	6	1,721	37
Malaria	15	66	367	35	60	595	379	155	715	256
ALRI <5 years	0	224	246	21	112	133	172	16	681	283
B. Diarrhea	0	130	96	7	43	62	54	36	165	48
Typhoid	2	20	73	0	65	68	90	1	86	27
VH (B, C & D)	60	63	33	0	6	18	14	3	22	17
Rabies / Dog bite	7	1	20	0	15	0	1	65	16	1
SARI	0	2	6	0	0	76	1	2	24	2
AWD (S. Cholera)	0	35	NR	0	6	2	0	0	0	61
Chickenpox/ Varicella	0	20	5	15	7	0	0	3	16	0
CL	0	0	NR	0	0	0	55	0	0	0
Measles	0	0	1	6	2	0	0	2	24	1
Meningitis	0	0	NR	0	0	0	0	0	11	6
Mumps	0	4	1	0	12	0	0	0	0	0
Leprosy	0	0	NR	0	0	0	4	0	0	13
HIV/AIDS	0	0	2	0	0	5	0	0	0	0
AFP	0	0	NR	2	0	0	0	0	2	0
Pertussis	0	0	NR	0	1	0	0	0	0	2
Anthrax	0	1	NR	0	0	0	0	0	0	1
NT	0	0	NR	0	0	0	0	0	1	0

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



Balochistan

- From Balochistan overall ILI (n=3,560), AD (Non Cholera) (n=1,724), SARI (n=597), ALRI <5 years (n=434), Malaria (n=414), B. diarrhea (n=333), Typhoid (n=209), CL (n=135), Rabies/Dog bite (n=47) & AWD (S. Cholera) (n=41) remained at maximum.
- District Gwadar reported maximum cases of ILI & AD (Non Cholera).
- District Kech reported cases of ILI & AD (Non Cholera) & ALRI <5 years at maximum.
- District Khuzdar reported maximum cases of AD (Non Cholera) & ILI.
- District Killa Abdullah reported maximum cases of ILI & AD (Non Cholera).
- District Lasbella reported maximum cases for AD (Non-Cholera) & Malaria.
- District Naseerabad reported cases of ALRI <5 years & AD (Non Cholera) at maximum.
- District Pishin reported cases for ILI & AD (Non Cholera) at maximum.
- From district Quetta, cases of ILI & AD (Non Cholera) were reported at maximum.
- District Sibi reported cases of ILI at maximum.
- District Zhob reported maximum cases of SARI & ILI.
- Cases of Anthrax & Leprosy need urgent attention and response.
- Measles cases are reported regularly, and therefore, needs strengthening of routine immunization system.
- In comparison with last week, cases of ILI & SARI depicted an upward trend while cases of AD (Non Cholera) have shown a decline.

Figure 4: Most frequently reported cases during week 10, in comparison with previous weeks, Balochistan

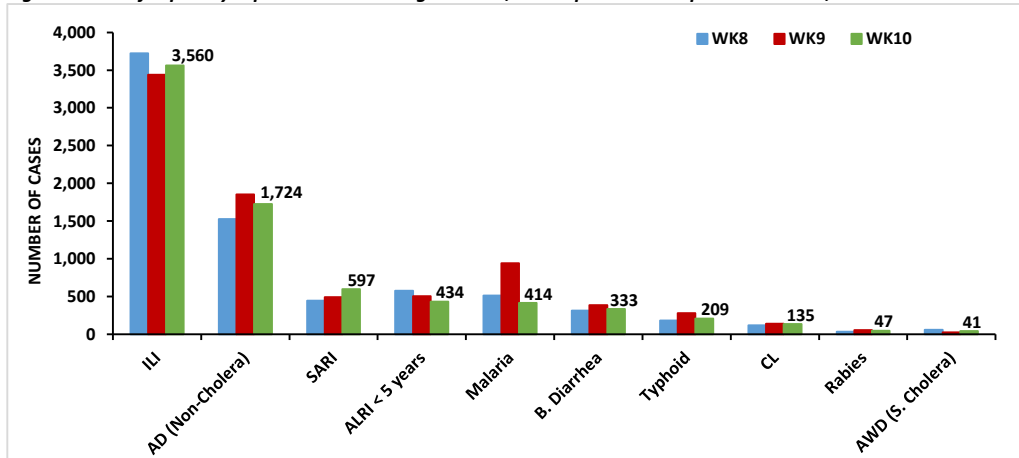
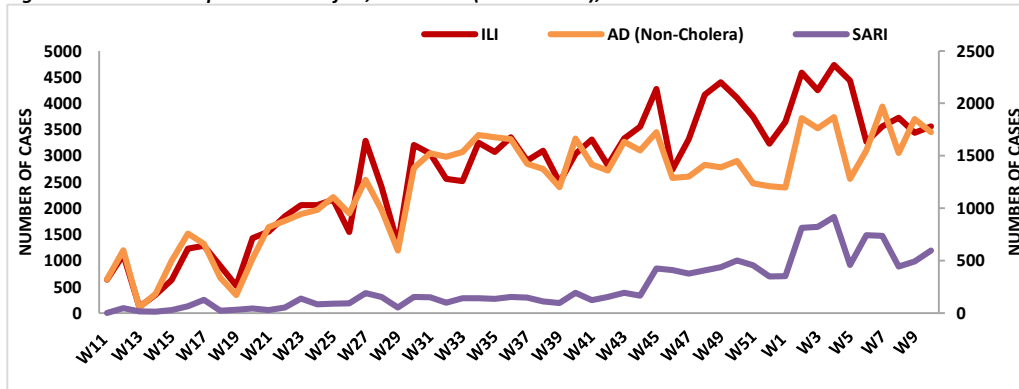


Table 3: District wise distribution of most frequently reported cases during week 10, Balochistan

Diseases	Gwa-dar	Kech (Turbat)	Khuzdar	Killa Abdullah	Lasbella	Naseerabad	Pishin	Quetta	Sibi	Zhob
ILI	586	1,426	108	329	67	27	98	544	103	272
AD (Non-Cholera)	219	416	109	148	302	94	95	214	61	66
SARI	8	44	20	NR	81	7	7	0	15	415
ALRI < 5 years	8	68	10	NR	89	211	0	11	18	19
Malaria	10	42	47	7	136	65	4	13	32	58
B. Diarrhea	38	67	46	NR	26	5	50	45	18	38
Typhoid	5	7	40	5	15	44	32	35	16	10
CL	35	1	11	30	19	17	7	10	5	0
Rabies / Dog bite	NR	0	15	2	11	5	5	0	9	0
AWD (S. Cholera)	2	0	NR	NR	27	0	0	0	11	1
Measles	8	0	11	7	5	1	0	0	0	0
Gonorrhoea	NR	0	18	NR	0	0	10	0	0	0
VH (B, C & D)	NR	1	1	NR	8	1	0	7	0	0
Chickenpox/ Varicella	8	0	NR	NR	5	2	0	0	4	0
Pertussis	NR	0	Nr	NR	5	2	0	3	1	0
Mumps	8	0	2	NR	2	0	2	0	3	0
VL	NR	0	NR	NR	0	3	0	0	0	0
AVH (A & E)	NR	1	1	NR	0	0	0	0	0	0
Leprosy	NR	0	Nr	1	1	0	0	0	0	0
Anthrax	NR	0	NR	NR	0	2	0	0	0	0
Meningitis	8	0	NR	1	0	0	0	0	0	0

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



Khyber Pakhtunkhwa (KP)

- KP reported cases of ILI (n=7,585), SARI (n=6,399), AD (Non Cholera) (n=6,147), ALRI <5 years (n=2,363), Malaria (n=1,903), Typhoid (n=612), Rabies/Dog bite (n=454), B. diarrhea (n=369), AWD (S. Cholera) (n=188), & Mumps (n=123) at maximum.
- Khyber district reported ILI & SARI at maximum.
- District Abbottabad reported maximum cases of AD (Non-Cholera).
- District Charsadda reported maximum cases of Malaria, AD (Non-Cholera), ILI & Typhoid.
- District Kohat reported maximum cases of ILI, AD (Non Cholera), SARI & Malaria.
- District Lakki Marwat reported maximum cases of Malaria, AD (Non-Cholera) & ALRI <5 years.
- District Malakand reported maximum cases of AD (Non Cholera), ALRI <5 years & ILI.
- District Mansehra reported maximum cases of ILI, AD (Non Cholera), SARI, Rabies & Typhoid.
- District Mardan reported maximum cases of ILI, SARI, AD (Non Cholera), ALRI <5 years & Malaria.
- District Swabi reported maximum cases of SARI, AD (Non Cholera), ILI & ALRI <5 years.
- District Swat reported maximum cases of SARI, ILI, AD (Non Cholera) & ALRI <5 years.
- Cases of VPDs need immediate attention and public health actions.
- Cases of HIV/AIDS from need immediate verification and public health response.
- Weekly cases of ILI & SARI depicted an upward trend while ALRI <5 years cases decreased.

Figure 6: Most frequently reported cases during week 10, in comparison with previous weeks, KP

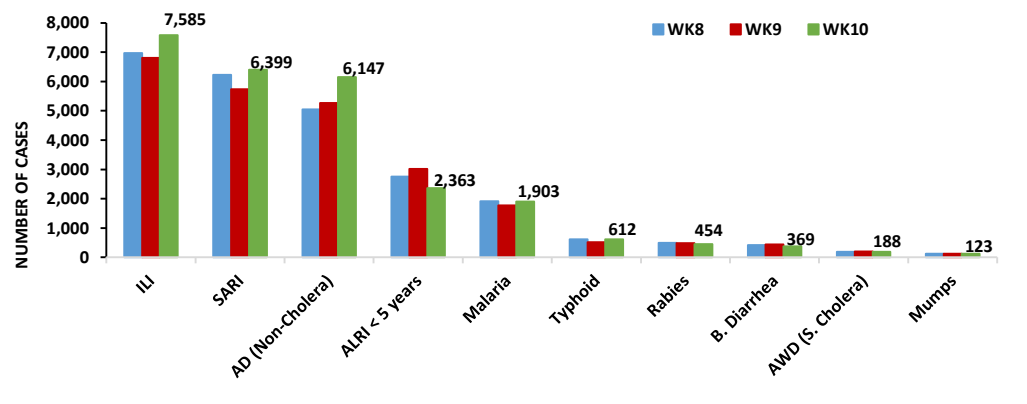
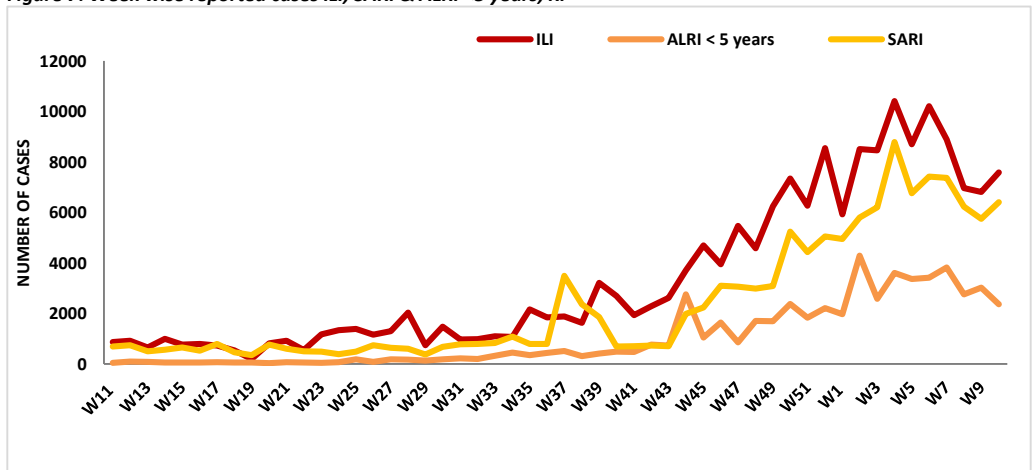


Table 4: District wise distribution of most frequently reported cases during week 10, KP

Diseases	Abbott-abad	Charsadda	Khyber	Kohat	Lakki Marwat	Malak-and	Mansehra	Mardan	Swabi	Swat
ILI	0	211	372	601	15	693	1,008	1,925	742	2,018
SARI	32	91	82	235	43	50	628	757	1,954	2,527
AD (Non-Cholera)	491	558	61	355	520	773	645	649	760	1,335
ALRI < 5 years	10	95	20	70	202	754	65	428	481	238
Malaria	0	740	3	149	557	79	2	326	18	29
Typhoid	8	110	28	19	29	58	119	91	55	95
Rabies / Dog bite	2	0	26	23	56	4	258	2	40	43
B. Diarrhea	1	43	25	42	25	77	24	39	39	54
AWD (S. Cholera)	0	21	0	13	3	26	13	21	40	51
Mumps	0	0	10	4	8	31	4	33	11	22
VH (B, C & D)	0	0	6	23	13	0	15	2	31	2
AVH (A & E)	0	3	18	0	0	20	3	3	17	23
CL	0	0	37	21	2	8	3	4	0	0
Measles	0	1	9	1	8	7	0	35	8	4
Chickenpox/ Varicella	0	0	5	1	0	26	6	13	16	1
Brucellosis	0	0	0	0	0	2	5	37	2	13
AFP	0	0	3	0	0	0	0	43	1	0
Leprosy	0	0	0	0	0	0	0	41	0	0
Pertussis	0	0	13	0	0	0	2	16	6	0
Anthrax	0	0	0	0	0	0	0	31	0	0
Meningitis	0	0	0	0	0	0	0	14	1	0
HIV/AIDS	0	0	0	0	3	0	0	0	1	0
NT	0	0	0	0	0	0	0	0	3	0

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



Islamabad (ICT)

- From ICT, the most frequent reported diseases were ILI (n=602), ALRI <5 years (n=178), AD (Non-Cholera) (n=164), SARI (n=08), Typhoid (n=05), B. diarrhea (n=04), AWD (S. Cholera) (n=01) & Chickenpox (n=01).
- During this week, a decline in cases of ILI & AD (Non Cholera) has been observed as compared to last week i.e. Week 09.

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

Gilgit Baltistan

- Gilgit-Baltistan reported cases of ALRI <5 years (n=16), ILI (n=15), SARI (n=04), B. diarrhea (n=02) & AD (Non Cholera) (n=01) this week.
- Weekly trend for cases of ALRI <5 years & ILI depicted an increase in trend as compared to previous week i.e. Week-09.

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

Figure 8: Most frequently reported cases during week 10, in comparison with previous weeks, ICT

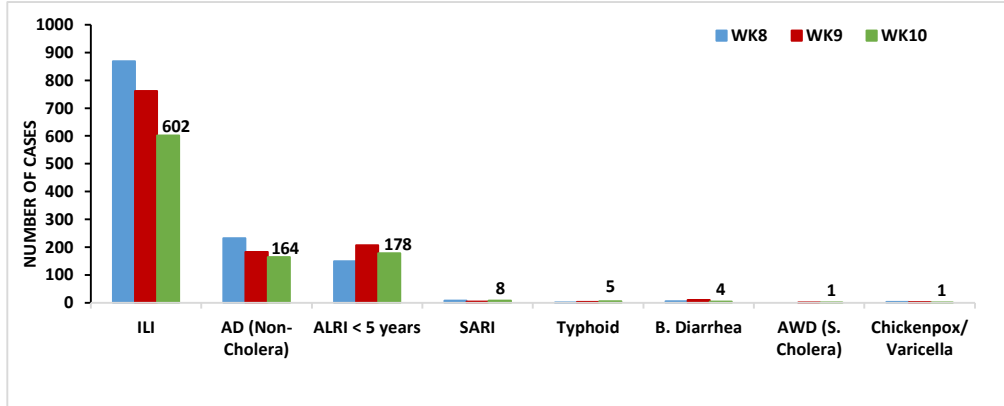


Figure 9: Week wise reported cases of ILI & AD (Non Cholera), ICT

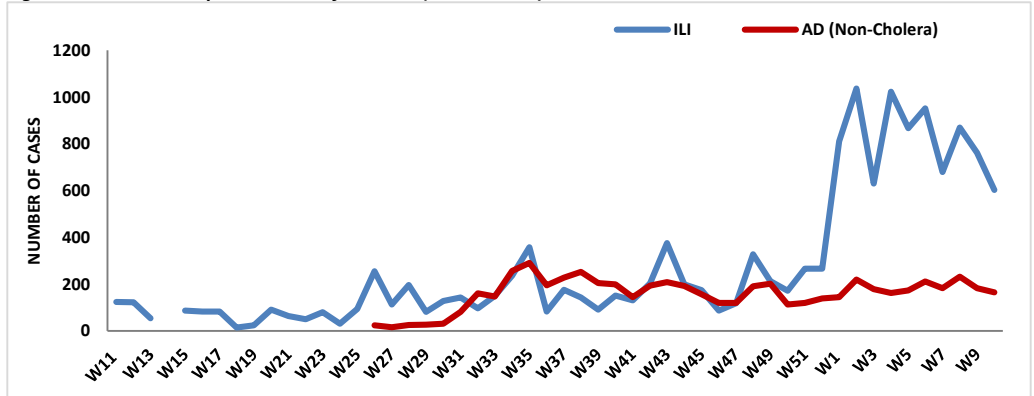


Figure 10: Most frequently reported cases during week 10, in comparison with previous weeks, GB

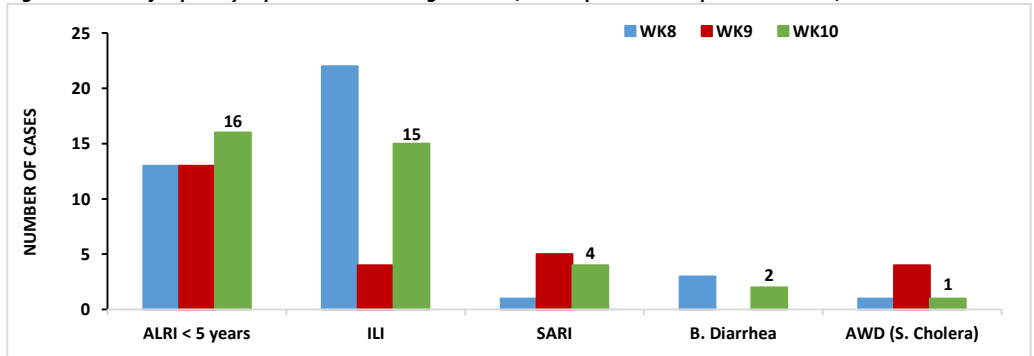
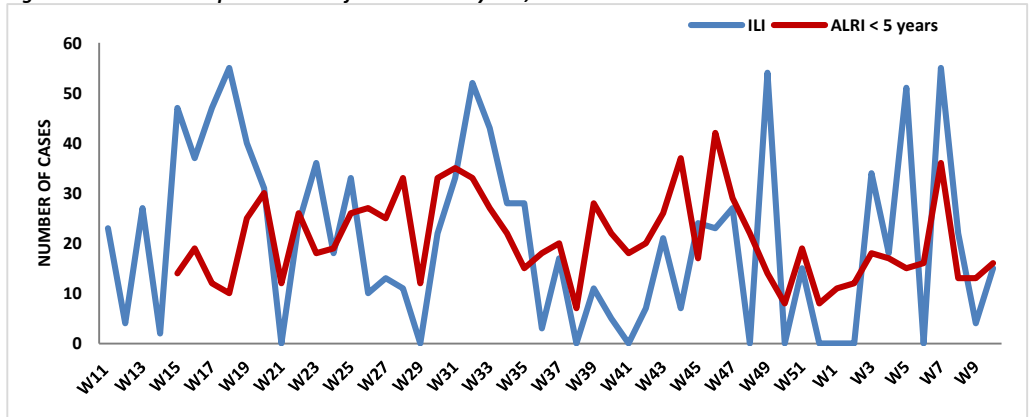


Figure 11: Week wise reported cases of ILI & ALRI < 5 years, GB



AJK

- District Mirpur most frequent reported cases are of AD (Non Cholera) (n=67), ILI (n=58), ALRI <5 years (n=36), B. diarrhea (n=04) and Malaria (n=03) this week.
- Weekly trend of ILI cases has shown a sharp decline whereas cases of AD (Non Cholera) are gradually increasing compared to last week.

Figure 12: Most frequently reported cases during week 10, in comparison with previous weeks, AJK

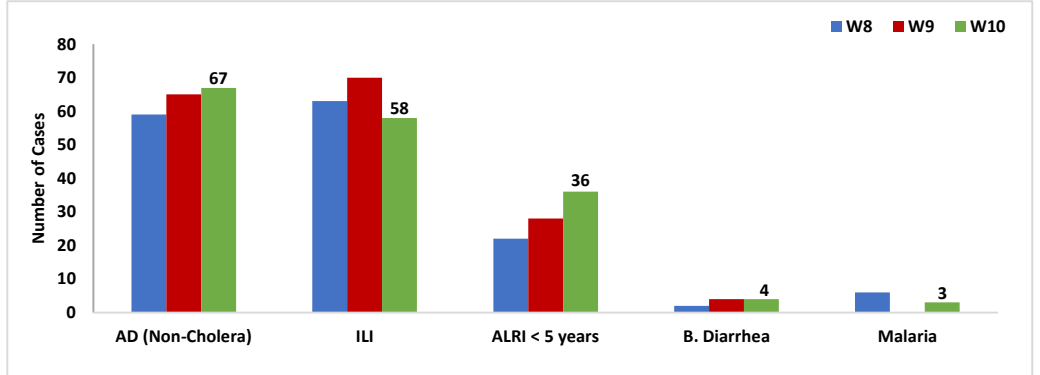


Figure 13: Week wise reported cases of ILI & AD (Non-Cholera), AJK

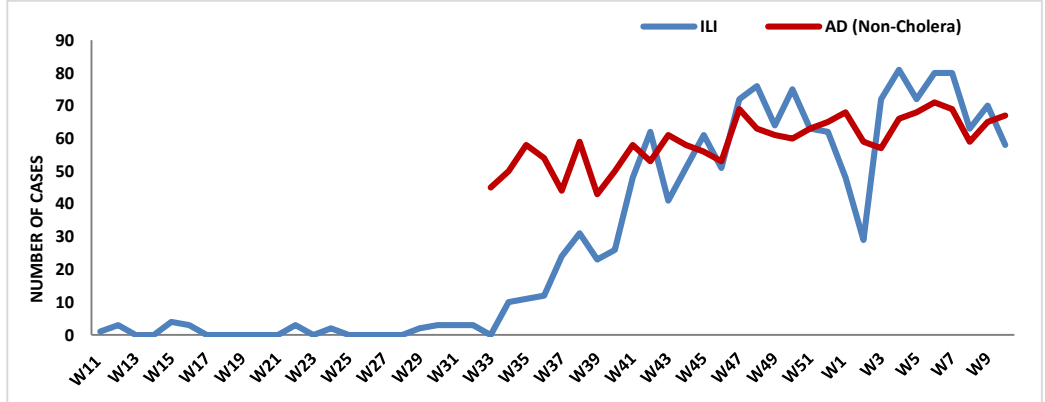


Figure 14: Most frequently reported cases during week 10, in comparison with previous weeks, Punjab

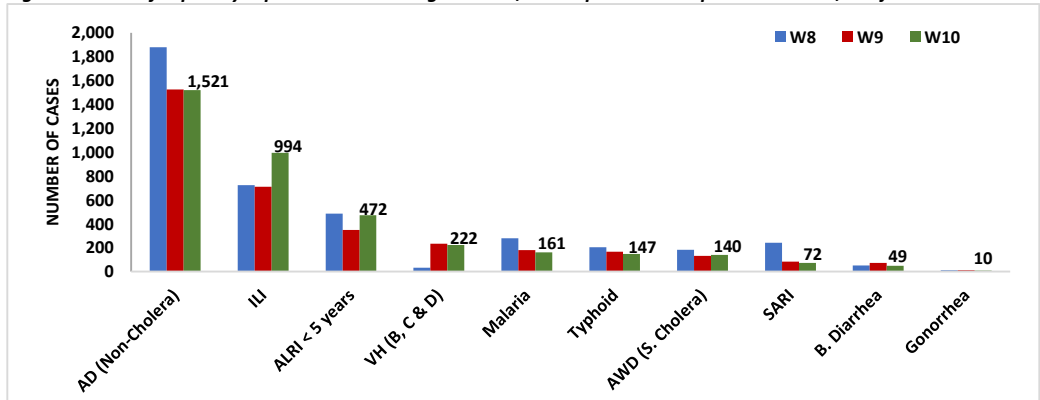
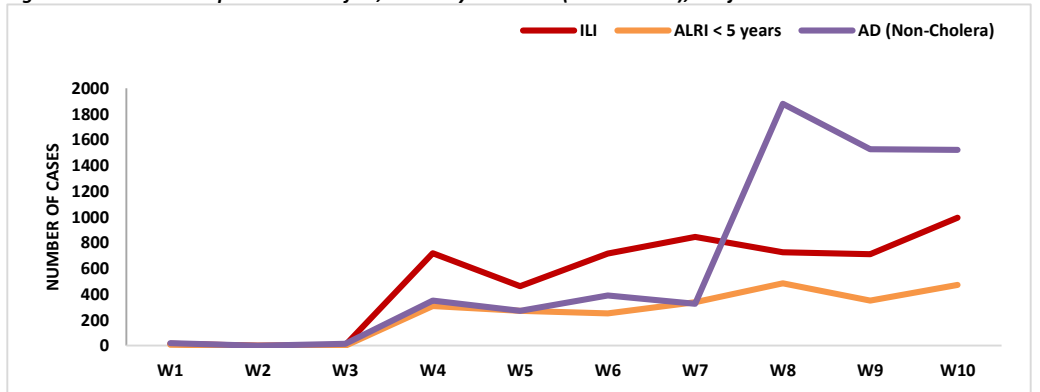


Figure 15: Week wise reported cases of ILI, ALRI <5 years & AD (Non Cholera), Punjab



Punjab

- This week Punjab reported cases of AD (Non Cholera) (n=1,521), ILI (n=994), ALRI <5 years (n=472), VH (B, C & D) (n=222), Malaria (n=161), Typhoid (n=147), AWD (S. Cholera) (n=140), SARI (n=72), B. diarrhea (n=49) and Gonorrhoea (n=10) at maximum.
- There is a need to strengthen the routine immunization to decrease burden of VPDS.
- Weekly trend for cases of ILI & ALRI <5 years have shown an incline whereas cases of AD (Non Cholera) have followed similar pattern this week as compared to previous week i.e. Week-09.

IDSR Participating Districts

- This week 22% (09/41) of the districts which include Kohat, Lakki Marwat, Mansehra, CDA & ICT (Islamabad), Gwadar, Killa Abdullah, Karachi East and Tharparkar reported hundred percent (%) data.
- Districts Haripur, Jaffarabad & Umerkot did not report IDSR 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	60 (100%)
	Abbottabad	110/110	95 (86%)
	Charsadda	61/61	51 (84%)
	Lakki Marwat	49/49	49 (100%)
	Swat	77/77	72 (94%)
	Malakand	78/78	37 (48%)
	Swabi	63/63	58 (92%)
	Khyber	63/63	11 (17%)
	Mardan	65/65	43 (66%)
	Mansehra	114/114	114 (100%)
Azad Jammu Kashmir	Mirpur	37/37	33 (90%)
Islamabad Capital Territory	ICT	18/18	18 (100%)
	CDA	9/12	9 (100%)
Balochistan	Gwadar	24/24	24 (100%)
	Kech	44/78	39(89%)
	Khuzdar	20/136	19(99%)
	Killa Abdullah	30/50	30 (100%)
	Lasbella	85/85	84(99%)
	Pishin	23/118	19 (83%)
	Quetta	22/77	16 (73%)
	Sibi	42/42	36 (86%)
	Zhob	37/37	22 (59%)
	Jaffarabad	47/47	0
	Naserabad	45/45	36 (80%)
Gilgit Baltistan	Hunza	30/30	29 (97%)
	Nagar	05/22	04 (80%)
Sindh	Hyderabad	63/63	57 (91%)
	Karachi-East	14/14	14 (100%)
	Karachi-Malir	43/43	32(74%)
	Ghotki	58/58	5 (08%)
	Umerkot	30/118	0
	Naushahro Feroze	52/52	23 (44%)
	Tharparkar	93/236	93 (100%)
	Shikarpur	32/32	14 (44%)
	Thatta	50/50	25 (50%)
	Larkana	149/149	42 (28%)
	Kamber	101/101	66 (65%)
Punjab	Bahawalpur	91/91	38 (42%)
	Muzaffargarh	117/117	46 (39%)
	Rajanpur	55/55	26 (47%)

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