



Field Epidemiology and Disease Surveillance Division (FEDSD)

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Weekly Bulletin: Integrated Disease Surveillance and Response (IDSR)

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Highlights of the Epi-Week-11 (14th – 20th March 2022)

Cumulative Information

- During this week, most frequent reported cases were of Acute Diarrhea (Non Cholera), ILI, SARI, ALRI <5 years, Malaria, B. Diarrhea, Typhoid, AWD (S. Cholera), Rabies/ Dog bite & VH (B, C & D).
- In comparison to previous week i.e. Week-10, all reported diseases depicted a downward trend except AWD (S. Cholera) & B. diarrhea.
- 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.
- 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.
- Cases of AFP have been reported from all over Pakistan which need immediate verification and response accordingly.

Figure 1: Most frequently reported cases during week 11, in comparison with previous weeks, Pakistan

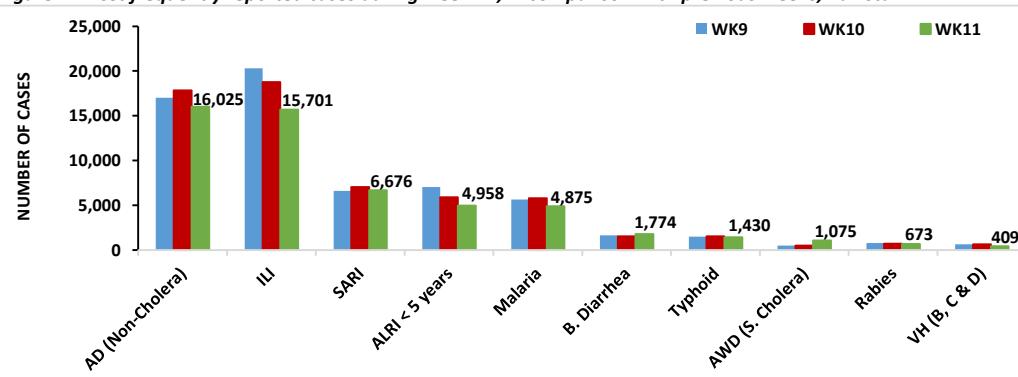


Table 1: Province/Area wise distribution of most frequently reported cases during week 11, Pakistan

Diseases	AJK	Balochistan	GB	ICT	KP	Punjab	Sindh	Total
AD (Non-Cholera)	80	1,663	5	107	7,547	495	6,128	16,025
ILI	68	3,442	0	487	6,520	457	4,727	15,701
SARI	5	367	1	7	6,193	35	68	6,676
ALRI < 5 years	34	540	11	134	2,044	287	1,908	4,958
Malaria	1	529	0	1	1,660	214	2,470	4,875
B. Diarrhea	3	443	0	2	617	60	649	1,774
Typhoid	0	241	0	0	604	221	364	1,430
AWD (S. Cholera)	0	70	2	1	226	158	618	1,075
Rabies / Dog bite	0	46	0	0	442	0	185	673
VH (B, C & D)	0	16	0	0	187	15	191	409
CL	0	123	0	0	60	0	37	220
AVH (A & E)	0	3	0	0	118	15	37	173
Mumps	0	13	0	0	123	1	20	157
Chickenpox/ Varicella	0	18	0	0	55	17	62	152
Measles	0	21	0	3	79	0	36	139
Pertussis	0	16	0	0	58	3	0	77
Gonorrhea	0	33	0	0	9	11	12	65
Dengue	0	1	0	0	2	0	46	49
Meningitis	0	1	0	0	22	2	8	33
AFP	0	0	0	0	13	0	4	17
Syphilis	0	2	0	0	1	2	11	16

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.**
- Case of HIV/AIDS need immediate verification and response action on priority basis to limit its spread.**
- Cases of dog bite is increasing across Pakistan. There is dire need to create community awareness, and prepare/ implement a comprehensive 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 in furnishing details on disease burden, circulating pathogens and devising national strategies for control of diseases.

Sindh

- Sindh reported most frequent reported cases of AD (Non Cholera) (n=6,128), ILI (n=4,727), Malaria (n=2,470), ALRI <5 Years (n=1,908), B. diarrhea (n=649), AWD (S. Cholera) (n=618), Typhoid (n=364), VH (B, C & D) (n=191), Rabies/ Dog bite (n=185) & SARI (n=68).
- Hyderabad reported maximum cases of ILI, AD (Non Cholera), AWD (Cholera), 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 & B. diarrhea.
- From Larkana, cases of Malaria & AD (Non Cholera) were reported at maximum.
- Naushahro Feroze reported maximum cases of ILI, Malaria, AD (Non Cholera), and ALRI <5 years.
- Shikarpur reported AD (Non Cholera) & Malaria cases at maximum.
- From Tharparkar, maximum cases of AD (Non-Cholera), ILI, Malaria, ALRI <5 years & B. diarrhea were reported.
- From Thatta, cases of AD (Non Cholera), Malaria & ALRI <5 years were reported at maximum.
- District Umerkot reported cases of Malaria, AD (Non Cholera), and ALRI <5 years 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 11, in comparison with previous weeks, Sindh

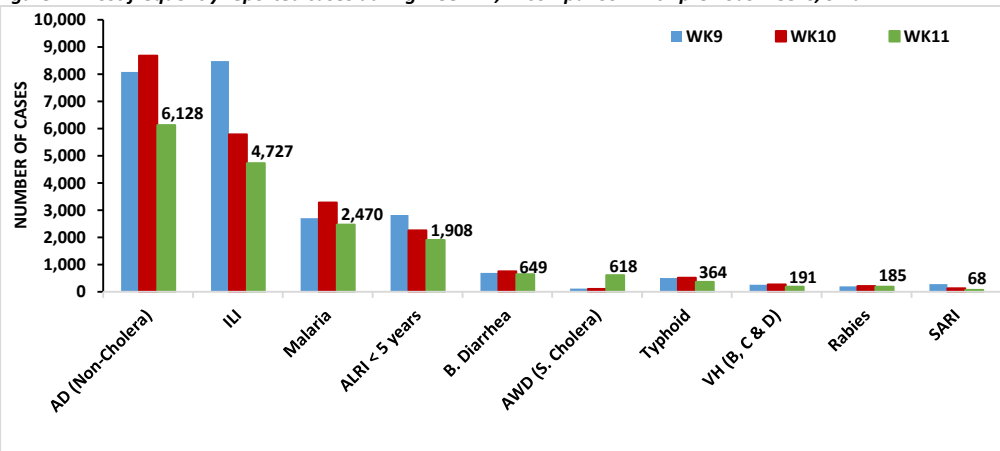
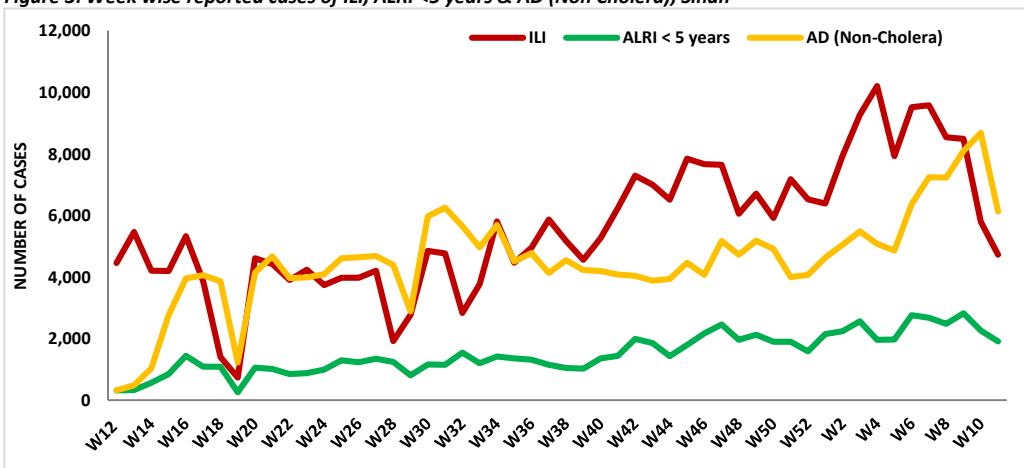


Table 2: District wise distribution of most frequently reported cases during week 11, Sindh

Districts	Hyderabad	Kamber	Kar-East	Kar-Malir	Larkana	N-Feroze	Shikarpur	Tharparkar	Thatta	Umerkot
AD (Non-Cholera)	1,427	689	153	1,008	190	316	303	1,421	332	289
ILI	2,060	3	33	411	0	776	9	1,386	49	0
Malaria	40	380	28	43	241	396	170	563	268	341
ALRI < 5 years	198	300	34	307	15	116	40	558	194	146
B. Diarrhea	93	101	3	93	34	51	44	126	48	56
AWD (S. Cholera)	524	0	0	44	0	12	0	0	37	1
Typhoid	8	86	0	57	8	84	1	79	26	15
VH (B, C & D)	35	41	0	12	53	13	2	12	5	18
Rabies / Dog bite	0	51	0	34	0	6	68	16	10	0
SARI	21	6	0	6	0	0	8	23	1	3
Chickenpox/ Varicella	9	4	20	17	0	0	3	7	1	1
Dengue	0	0	15	2	0	0	0	29	0	0
AVH (A & E)	9	0	1	1	0	8	0	8	10	0
CL	1	1	0	0	0	35	0	0	0	0
Measles	1	4	3	9	0	0	0	18	1	0
Mumps	1	0	1	14	0	0	0	0	0	4
Gonorrhea	0	1	0	9	0	2	0	0	0	0
Syphilis	0	5	0	0	0	5	0	1	0	0
Meningitis	0	0	0	0	0	0	0	8	0	0
HIV/AIDS	1	1	0	0	6	0	0	0	0	0
AFP	0	1	0	0	0	1	0	2	0	0

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



Balochistan

- From Balochistan overall ILI (n=3,442), AD (Non Cholera) (n=1,663), ALRI <5 years (n=540), Malaria (n=529), B. diarrhea (n=443), SARI (n=367), Typhoid (n=241), CL (n=123), AWD (Cholera) (n=70) & Rabies/ Dog bite (n=46) & remained at maximum.
- District Gwadar reported maximum cases of ILI.
- District Kech reported cases of ILI, AD (Non Cholera), ALRI <5 years & B. diarrhea 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 & ALRI <5 years.
- District Naseerabad reported cases of Malaria & 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 & AD (Non Cholera) at maximum.
- Cases of Anthrax, Brucellosis and CRS need urgent attention and response.
- District Zhob reported maximum cases of SARI, Malaria & ILI.
- Measles cases are reported regularly, and therefore, needs strengthening of routine immunization system.
- In comparison with last week, cases of ALRI <5 years depicted an upward trend while cases of ILI & AD (Non Cholera) have shown a decline.

Figure 4: Most frequently reported cases during week 11, in comparison with previous weeks, Balochistan

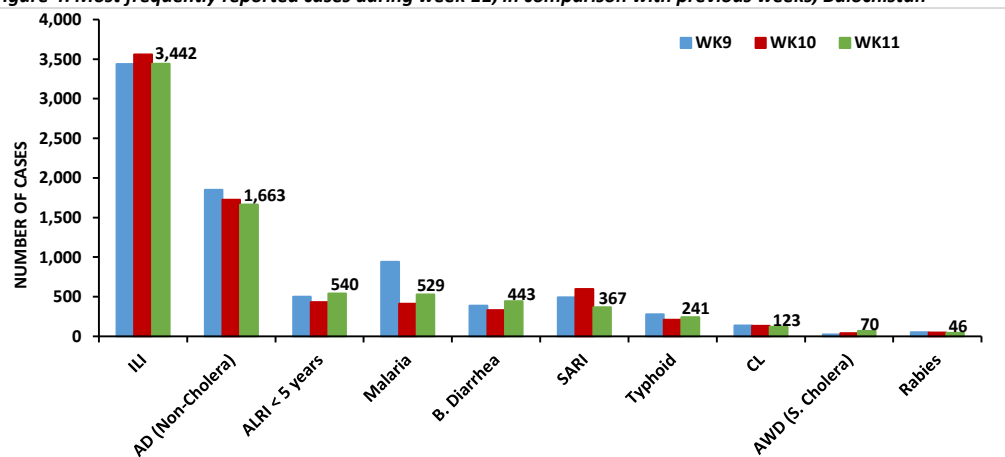
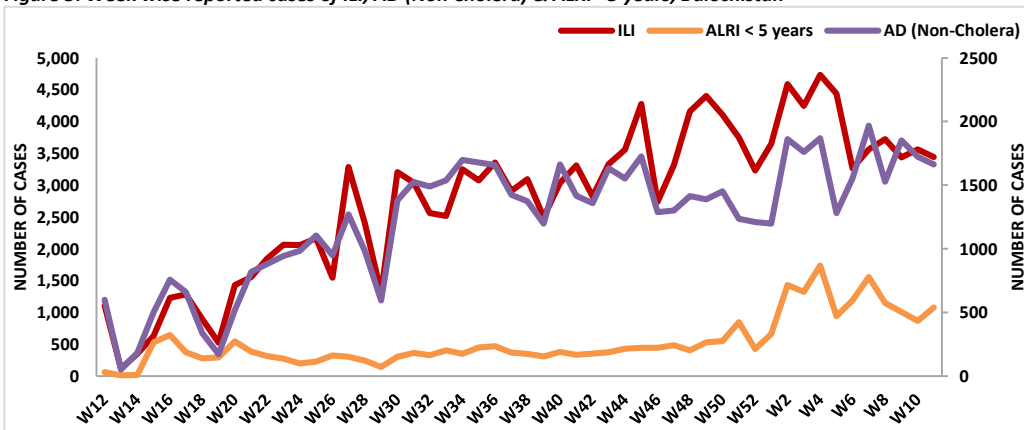


Table 3: District wise distribution of most frequently reported cases during week 11, Balochistan

Diseases	Gwa-dar	Kech (Turbat)	Khuzdar	Killa Abdullah	Lasbella	Naseera-bad	Pishin	Quetta	Sibi	Zhob
ILI	339	1,403	90	305	76	79	253	604	176	117
AD (Non-Cholera)	50	414	92	131	333	99	113	226	128	77
ALRI < 5 years	NR	132	8	NR	117	46	62	9	3	163
Malaria	52	53	65	3	147	103	10	8	20	68
B. Diarrhea	86	93	32	NR	38	5	60	50	32	47
SARI	14	37	6	NR	82	4	1	9	4	210
Typhoid	10	11	45	1	21	52	38	41	10	12
CL	4	0	12	24	14	39	17	9	4	0
AWD (S. Cholera)	61	0	0	NR	5	0	0	0	4	0
Rabies / Dog bite	NR	0	15	NR	11	3	10	0	6	1
Gonorrhea	NR	0	26	NR	0	0	6	1	0	0
Measles	NR	0	8	3	7	1	0	0	2	0
Chickenpox/ Varicella	NR	0	0	NR	8	7	0	0	3	0
VH (B, C & D)	NR	0	2	NR	3	5	0	6	0	0
Pertussis	NR	0	0	NR	1	2	0	9	0	4
Mumps	NR	0	1	NR	1	2	9	0	0	0
Anthrax	NR	0	0	NR	0	5	0	0	0	0
Meningitis	NR	0	0	1	0	0	0	0	0	0
Brucellosis	NR	0	0	NR	0	1	0	0	0	0
Rubella (CRS)	NR	0	0	NR	0	1	0	0	0	0

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



Khyber Pakhtunkhwa (KP)

- KP reported cases of AD (Non Cholera) (n=7,547), ILI (n=6,520), SARI (n=6,193), ALRI <5 years (n=2,044), Malaria (n=1,660), B. diarrhea (n=617), Typhoid (n=604), Rabies/Dog bite (n=442), AWD (S. Cholera) (n=226), & VH (B, C & D) (n=187) at maximum.
- Khyber district reported ILI at maximum.
- District Abbottabad reported maximum cases of AD (Non-Cholera).
- District Charsadda reported maximum cases of Malaria, AD (Non-Cholera), ILI & SARI.
- District Kohat reported maximum cases of ILI, AD (Non Cholera), Malaria & SARI.
- District Lakki Marwat reported maximum cases of AD (Non-Cholera), ALRI <5 years, Malaria & VH (B, C & D).
- District Malakand reported maximum cases of AD (Non Cholera), ILI, ALRI <5 years & B. diarrhea.
- District Mansehra reported maximum cases of ILI, AD (Non Cholera), SARI, ALRI <5 years, Rabies/Dog bite & Typhoid.
- District Mardan reported maximum cases of ILI, AD (Non Cholera), ALRI <5 years, Malaria & SARI.
- District Swabi reported maximum cases of SARI, AD (Non Cholera), ILI, ALRI <5 years & Rabies/Dog bite.
- District Swat reported maximum cases of SARI, AD (Non Cholera), ILI, ALRI <5 years, Typhoid & B. diarrhea.
- Cases of VPDs, Brucellosis & Leprosy need urgent attention and public health actions.
- Cases of ILI, ALRI <5 years & SARI depicted a downward trend as compared to previous week.

Figure 6: Most frequently reported cases during week 11, in comparison with previous weeks, KP

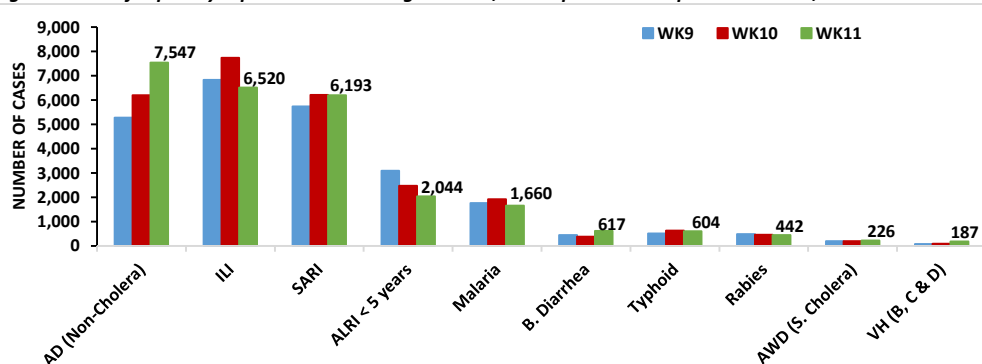
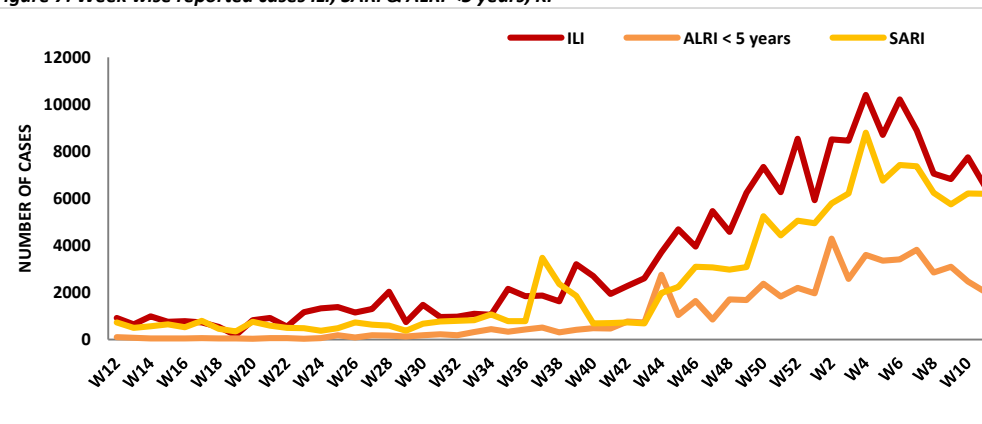


Table 4: District wise distribution of most frequently reported cases during week 11, KP

Diseases	Abbotta- bad	Charsadda	Khyber	Kohat	Lakki Marwat	Malakand	Mansehra	Mardan	Swabi	Swat
AD (Non-Cholera)	497	525	66	563	851	939	670	879	883	1,674
ILI	0	255	298	605	37	664	863	1,353	790	1,655
SARI	31	91	3	170	26	90	550	428	1,647	3,157
ALRI < 5 years	8	67	13	53	356	286	124	558	191	388
Malaria	0	599	38	277	212	49	2	436	20	27
B. Diarrhea	4	51	31	60	45	194	42	60	27	103
Typhoid	11	74	23	45	30	46	123	48	58	146
Rabies / Dog bite	5	0	7	47	40	11	123	10	139	60
AWD (S. Cholera)	0	17	0	30	3	23	34	39	40	40
VH (B, C & D)	0	0	18	7	100	0	15	9	38	0
Mumps	0	0	9	4	10	32	3	31	6	28
AVH (A & E)	0	0	14	0	0	29	7	2	16	50
Measles	0	4	25	6	10	6	8	10	7	3
CL	0	0	35	17	0	6	0	2	0	0
Pertussis	0	0	5	0	0	0	0	22	12	19
Chickenpox/ Varicella	1	0	8	4	0	6	6	19	9	2
Meningitis	0	0	0	0	0	0	0	17	5	0
AFP	0	1	0	0	3	1	1	6	1	0
Brucellosis	0	0	0	0	0	0	1	6	0	2
Diphtheria (Probable)	0	0	0	0	0	0	0	0	0	4
Leprosy	0	0	0	0	0	0	3	0	0	0
NT	0	0	0	0	0	0	0	0	1	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=487), ALRI <5 years (n=134), AD (Non-Cholera) (n=107), SARI (n=07), Measles (n=03), B. diarrhea (n=02), AWD (S. Cholera) (n=01) & Malaria (n=01).
- During this week, a decline in cases of ILI & ALRI <5 years has been observed as compared to last week i.e. Week 10.

(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 11, in comparison with previous weeks, ICT

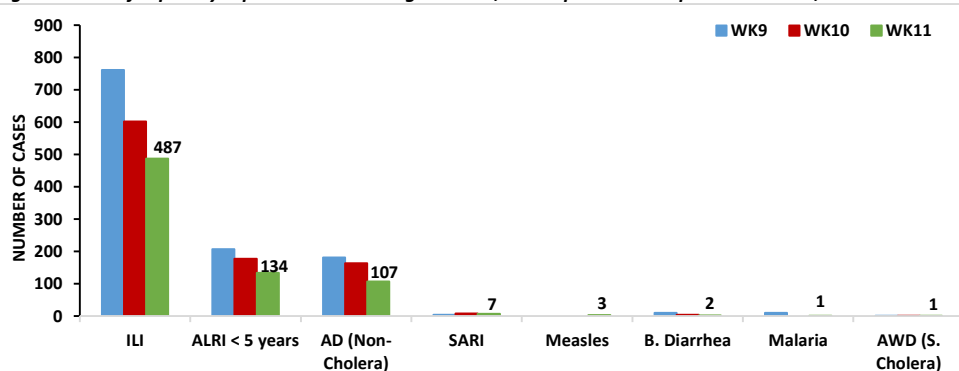


Figure 9: Week wise reported cases of ILI & ALRI <5 years, ICT

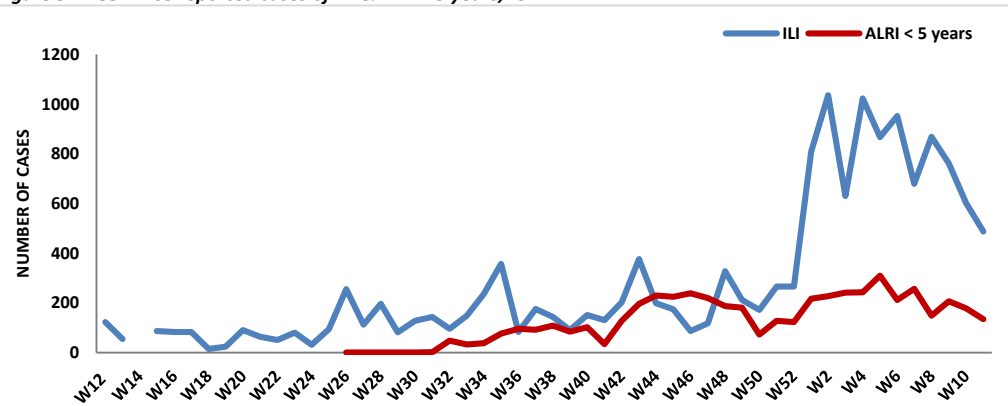


Figure 10: Most frequently reported cases during week 11, in comparison with previous weeks, GB

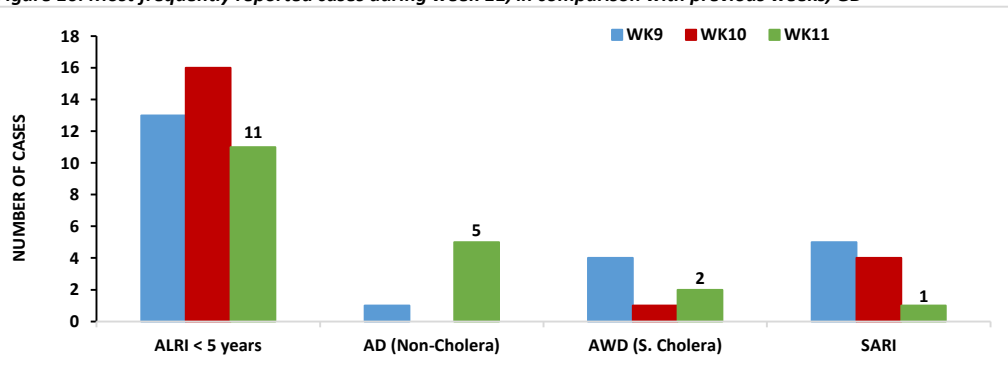
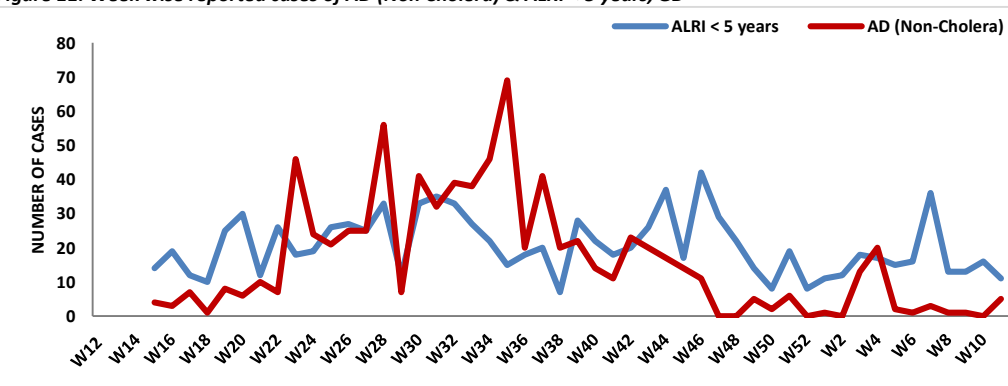


Figure 11: Week wise reported cases of AD (Non Cholera) & ALRI < 5 years, GB



Gilgit Baltistan

- Gilgit-Baltistan reported cases of ALRI <5 years (n=11), AD (Non Cholera) (n=05), AWD (Cholera) (n=02) & SARI (n=01) this week.
- Weekly trend for cases of ALRI <5 years has shown decline while cases of AD (Non Cholera) depicted an increase in trend as compared to previous week i.e. Week-10.

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

AJK

- From District Mirpur most frequently reported cases are of AD (Non Cholera) (n=80), ILI (n=68), ALRI <5 years (n=34), SARI (n=05), B. diarrhea (n=03) and Malaria (n=01) this week.
- Weekly trend of ILI & AD (Non Cholera) has shown an increase in cases as compared to last week.

Figure 12: Most frequently reported cases during week 11, in comparison with previous weeks, AJK

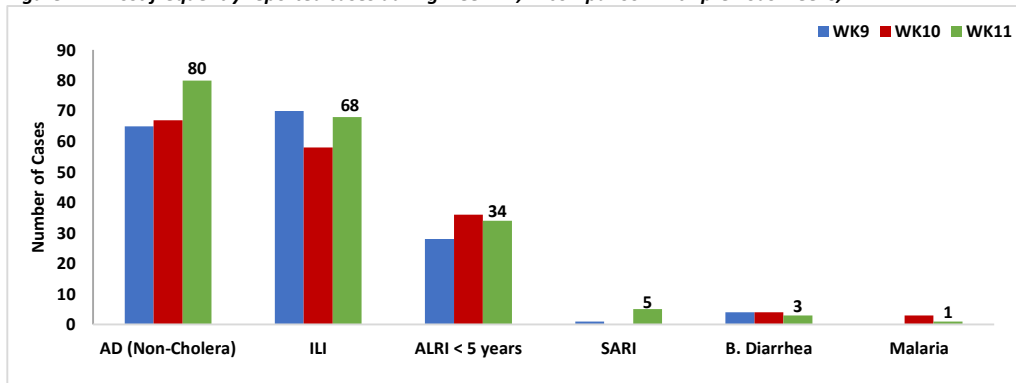


Figure 13: Week wise reported cases of ILI & AD (Non Cholera), AJK

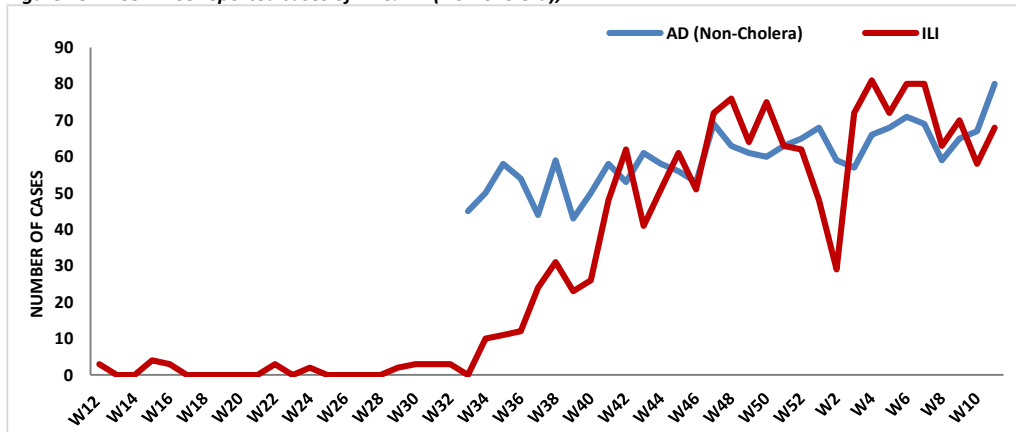


Figure 14: Most frequently reported cases during week 11, in comparison with previous weeks, Punjab

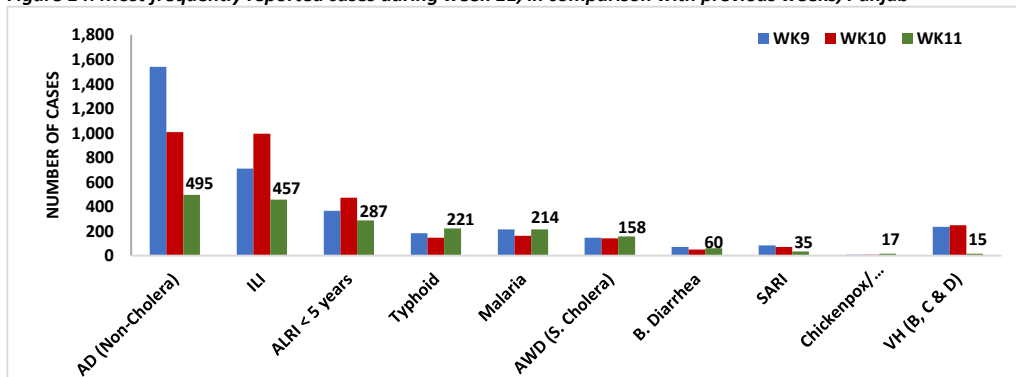
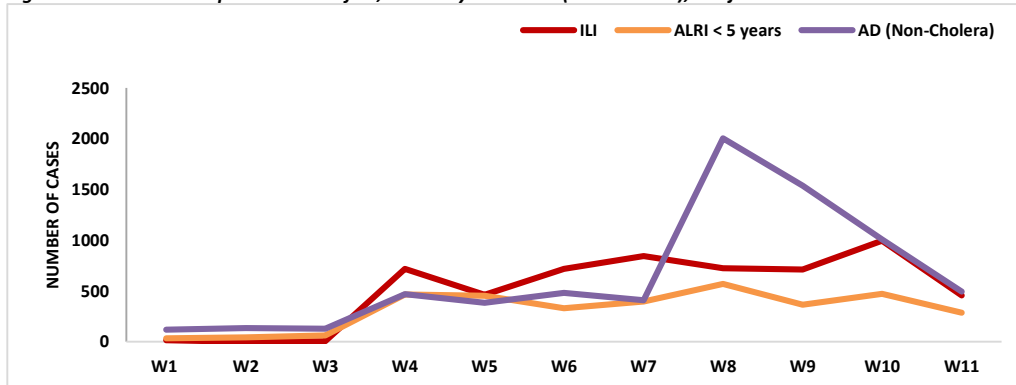


Figure 15: Week wise reported cases of ILI, ALRI <5 years & AD (Non Cholera), Punjab



Punjab

- This week Punjab reported cases of AD (Non Cholera) (n=495), ILI (n=457), ALRI <5 years (n=287), Typhoid (n=221), Malaria (n=214), AWD (S. Cholera) (n=158), B. diarrhea (n=60), SARI (n=35), Chickenpox (n=17) & VH (B, C & D) (n=15), at maximum.
- There is a need to strengthen the routine immunization to decrease burden of VPDs.
- Weekly trend for cases of ILI, AD (Non Cholera) & ALRI <5 years have shown a decline this week as compared to previous week i.e. Week-10.

IDSR Participating Districts

- This week 10% (04/41) of the districts which include Kohat, Lakki Marwat, CDA (Islamabad) and Tharparkar reported hundred percent (%) data.
- Districts Haripur, Jaffarabad, Nagar & Rajanpur 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	02 (03%)
	Swabi	63/63	17 (27%)
	Khyber	63/63	10 (16%)
	Mardan	65/65	09 (14%)
	Mansehra	114/114	08 (07%)
Azad Jammu Kashmir	Mirpur	37/37	31 (84%)
Islamabad Capital Territory	ICT	18/18	12 (67%)
	CDA	9/12	9 (100%)
Balochistan	Gwadar	24/24	23 (99%)
	Kech	44/78	42 (95%)
	Khuzdar	20/136	18 (90%)
	Killa Abdullah	30/50	21 (70%)
	Lasbella	85/85	84 (99%)
	Pishin	23/118	18 (81%)
	Quetta	22/77	16 (73%)
	Sibi	42/42	38 (91%)
	Zhob	37/37	24 (65%)
	Jaffarabad	47/47	0
	Naserabad	45/45	35 (79%)
Gilgit Baltistan	Hunza	30/30	28 (96%)
	Nagar	05/22	0
Sindh	Hyderabad	63/63	57 (91%)
	Karachi-East	14/14	13 (99%)
	Karachi-Malir	43/43	33 (75%)
	Ghotki	58/58	8 (14%)
	Umerkot	30/118	13 (44%)
	Naushahro Feroze	52/52	22 (42%)
	Tharparkar	93/236	93 (100%)
	Shikarpur	32/32	19 (59%)
	Thatta	50/50	29 (58%)
	Larkana	149/149	14 (09%)
	Kamber	101/101	63 (57%)
Punjab	Bahawalpur	91/91	33 (36%)
	Muzaffargarh	117/117	51 (45%)
	Rajanpur	55/55	0

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