

Highlights of the Epi-Week 48 (29th November – 5th December 2021)

Cumulative Information

- During this week, maximum cases reported were of ILI, Acute Diarrhea (Non Cholera), ALRI <5 years, Malaria, SARI, B. Diarrhea, Typhoid, suspected Cholera, VH (B, C & D) & CL.
- In comparison with previous week i.e. Week-47, all diseases have shown a decline in trend while cases of CL depicted a similar trend.
- Persistent reporting of cases of Gonorrhoea from Sindh & Balochistan need urgent attention and differential diagnosis for proper follow up, and public health response.
- Cases of VPDs (Pertussis, Meningitis, Measles, Chickenpox & Mumps) reported from KP, Balochistan, ICT, and Sindh warrant immediate attention of the immunization program to strengthen immunization activities for control of VPDs.
- Sindh & KP reported cases of HIV/AIDS which need immediate verification and response accordingly.
- Cases of VH (B, C & D) reported from Sindh & Balochistan province need urgent attention for confirmation and implementation of control measures accordingly.
- Reporting of cases of Rabies/Dog bite warrants urgent attention and further workup according to One Health approach.

Figure 1: Most frequently reported cases during week 48, in comparison with previous weeks, Pakistan

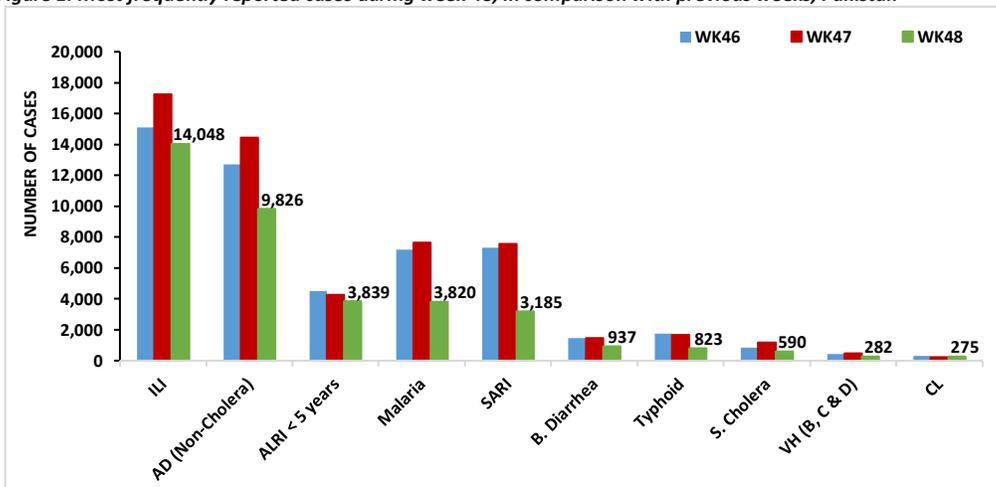


Table 1: Province/Area wise distribution of most frequently reported cases during week 48, Pakistan

Diseases	AJK	Balochistan	GB	ICT	KP	Sindh	Total
ILI	76	4,162	0	328	3,672	5,810	14,048
AD (Non-Cholera)	63	1,414	0	191	3,714	4,444	9,826
ALRI < 5 years	38	197	22	187	1,531	1,864	3,839
Malaria	0	584	0	2	972	2,262	3,820
SARI	0	404	9	102	2,615	55	3,185
B. Diarrhea	2	253	0	6	202	474	937
Typhoid	7	169	2	6	279	360	823
S. Cholera	0	59	4	2	171	354	590
VH (B, C & D)	0	0	0	1	59	222	282
CL	0	126	0	0	24	125	275
Rabies / Dog bite	0	30	0	0	115	91	236
Dengue	0	5	0	0	78	86	169
Measles	0	91	0	0	47	26	164
HIV/AIDS	0	0	0	0	11	90	101
Chickenpox	0	6	0	6	59	3	74
Pertussis	0	11	0	0	55	2	68
Mumps	0	8	0	1	42	2	53
AVH (A & E)	0	1	0	0	0	28	29
Gonorrhoea	0	8	0	0	0	15	23
Meningitis	0	3	0	0	5	0	8

Points of Attention

- Malaria, and Typhoid cases are on rise especially in Balochistan and Sindh. The hot spot should be identified, causative and contributing factors should be assessed, and timely response should be initiated.
- It is proposed to enhance community awareness on water, sanitation and hygiene (WASH) practices especially in diarrheal diseases and typhoid affected districts.
- Due to regular Polio campaigns and ongoing COVID-19 activities, Health Care Workers (HCWs) are overburdened, resultantly routine immunization is affected. Vaccine preventable diseases cases are reported each week. **Vigilant monitoring, and coordination with EPI needs to be strengthened to reduce the VPD cases.**
- Along-with infectious and non-infectious diseases, burden of Zoonotic diseases is increasing in Pakistan, and Dog bite is one of those diseases. Community awareness sessions may be arranged for treatment and vaccination of dog bite cases. 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 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=5,810), AD (Non Cholera) (n=4,444), Malaria (n=2,262), ALRI <5 Years (n=1,864), B. diarrhea (n=474), Typhoid (n=360), suspected Cholera (n=354), VH (B, C & D) (n=222), CL (n=125) & Rabies/ Dog bite (n=91).
- District Ghotki reported the maximum cases of ALRI <5 years, AD (Non Cholera), ILI & Malaria.
- District Hyderabad reported maximum cases of ILI, AD (Non Cholera), ALRI <5 years, suspected Cholera & Malaria.
- From Kamber, AD (Non Cholera), Malaria, ALRI <5 years & Typhoid cases were 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.
- From Larkana, cases of Malaria, AD (Non Cholera) & ALRI <5 years were reported at maximum.
- Naushahro Feroze reported cases of ILI, Malaria, AD (Non Cholera) & ALRI <5 years at maximum.
- District Shikarpur reported AD (Non Cholera) cases at maximum.
- From Tharparkar, maximum cases of AD (Non-Cholera), ILI, Malaria, ALRI <5 years & CL were reported.
- From Umerkot, cases of Malaria & AD (Non Cholera) were reported at maximum.
- Cases of HIV/AIDS have been reported from Larkana which need immediate verification and response accordingly.
- There is a need to strengthen routine immunization to decrease disease burden of VPDs.
- This week, cases of ILI, AD (Non Cholera) & ALRI <5 years have shown a downward trend as compared to previous week.

(Note: NR= Not Reported)

Figure 2: Most frequently reported cases during week 48, in comparison with previous weeks, Sindh

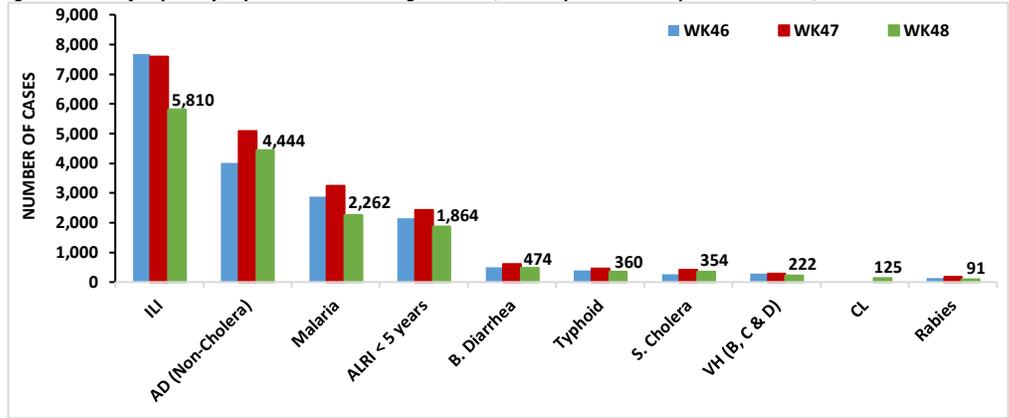
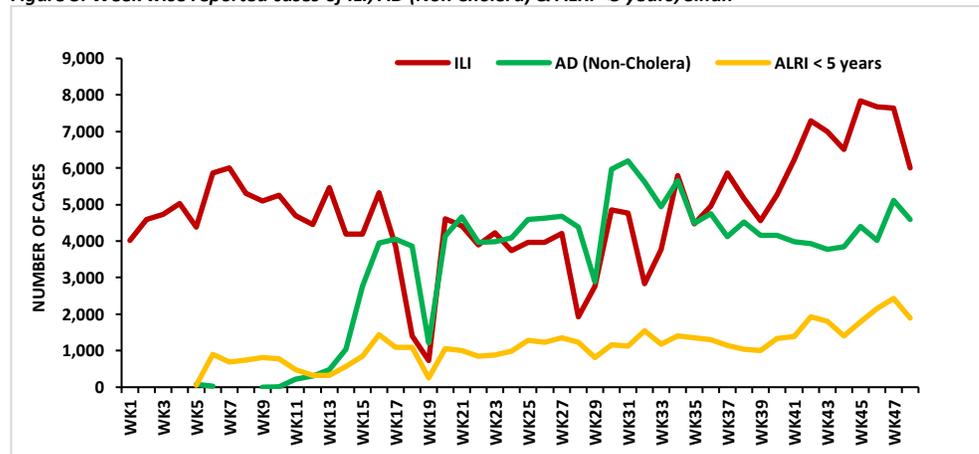


Table 2: District wise distribution of most frequently reported cases during week 48, Sindh

Diseases	Ghotki	Hyderabad	Kamber	Karachi East	Karachi Malir	Larkana	Naushahro Feroze	Shikarpur	Tharparkar	Umerkot	Total
ILI	186	3,655	5	15	308	0	669	30	942	0	5,810
AD (Non-Cholera)	262	1,363	532	122	480	216	246	146	948	129	4,444
Malaria	111	93	417	21	65	332	262	27	703	231	2,262
ALRI <5 years	263	494	158	5	258	140	77	9	405	55	1,864
B. Diarrhea	77	114	70	4	27	60	22	18	71	11	474
Typhoid	47	18	91	2	78	27	44	1	52	0	360
S. Cholera	81	259	0	0	9	0	4	0	0	1	354
VH (B, C & D)	82	37	35	1	10	9	4	22	21	1	222
CL	0	NR	0	0	0	0	0	0	125	0	125
Rabies / Dog bite	40	2	25	0	10	0	0	10	4	0	91
HIV/AIDS	0	0	0	0	0	90	0	0	0	0	90
Dengue	1	50	0	0	8	0	0	0	27	0	86
SARI	9	22	0	0	9	2	0	3	8	2	55
Measles	1	9	1	0	2	0	0	0	13	0	26
Gonorrhoea	0	10	1	0	0	4	0	0	0	0	15
Pertussis	0	NR	0	0	0	0	0	0	0	2	2
Chikungunya	0	NR	0	0	1	0	0	0	0	0	1
AFP	0	1	0	0	0	0	0	0	0	0	1

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



Balochistan

- From Balochistan overall ILI (n=4,162), AD (Non Cholera) (n=1,414), Malaria (n=584), SARI (n=404), B. diarrhea (n=253), ALRI <5 years (n=197), Typhoid (n=169), CL (n=126), Measles (n=91) & S. Cholera (n=59) remained at maximum.
- District Gwadar reported cases of ILI & AD (Non Cholera) at maximum.
- District Kech reported maximum cases of ILI, AD (Non-Cholera) & Malaria.
- District Khuzdar reported maximum cases of ILI, AD (Non-Cholera & Malaria).
- District Killa Abdullah reported maximum cases of ILI & AD (Non Cholera).
- District Lasbella reported maximum cases for Malaria, AD (Non-Cholera) & SARI.
- District Pishin reported more cases for ILI & AD (Non Cholera).
- District Quetta reported maximum cases for ILI & AD (Non-Cholera).
- Sibi reported maximum cases of ILI & AD (Non Cholera).
- District Zhob reported maximum cases of ILI & SARI.
- Most cases of Measles have been reported from district Lasbella which need urgent attention & further work up.
- Cases of VPDs other than measles like Pertussis, Mumps, Meningitis & Chickenpox have been regularly reported, and therefore, needs strengthening of routine immunization system.
- In comparison with last week, cases of ILI, AD (Non Cholera) & SARI have shown an upward trend.

Figure 4: Most frequently reported cases during week 48, in comparison with previous weeks, Balochistan

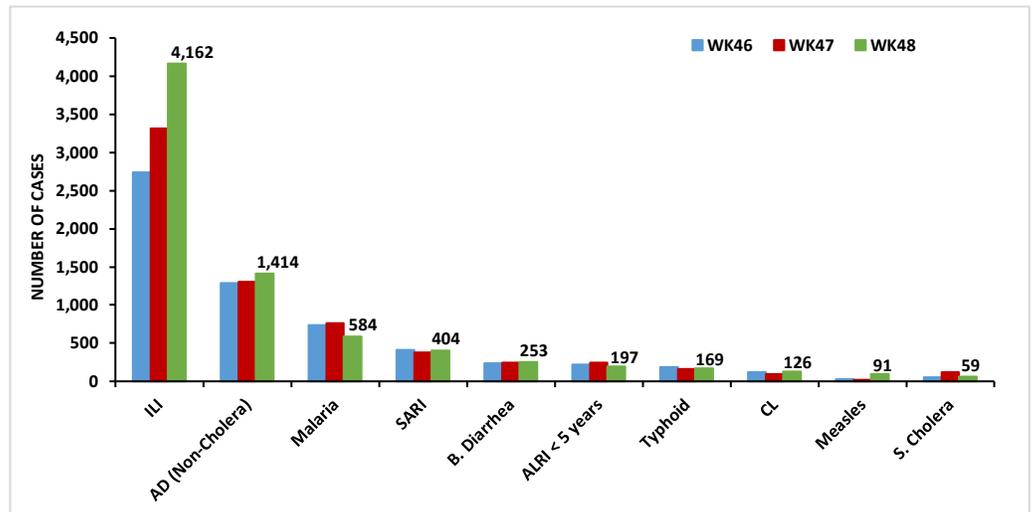
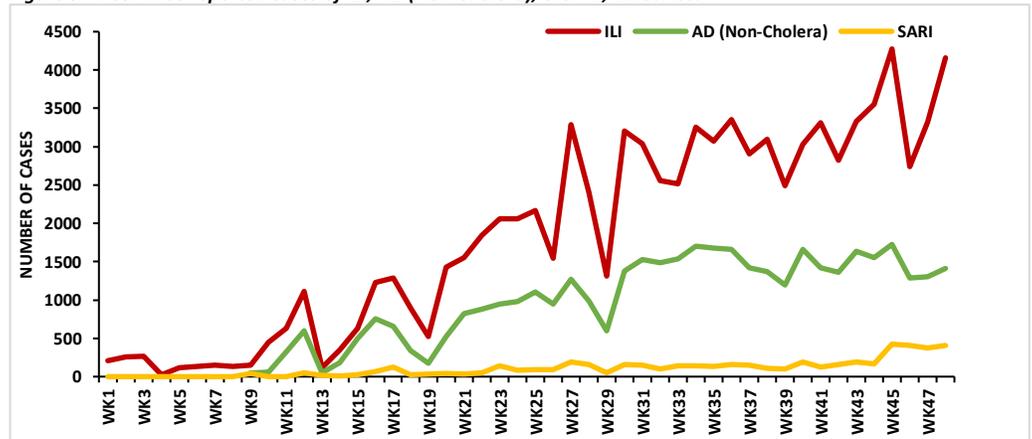


Table 3: District wise distribution of most frequently reported cases during week 48, Balochistan

Diseases	Gwadar	Kech (Turbat)	Khuzdar	Killa Abdullah	Lasbella	Pishin	Quetta	Sibi	Zhob	Total
ILI	802	1,678	121	338	16	262	563	113	269	4,162
AD (Non-Cholera)	173	303	104	304	149	70	190	78	43	1,414
Malaria	91	133	78	9	195	14	12	29	23	584
SARI	NR	35	23	NR	86	9	0	5	246	404
B. Diarrhea	30	41	33	NR	22	52	27	21	27	253
ALRI < 5 years	8	50	11	NR	62	31	0	26	9	197
Typhoid	3	17	54	4	23	29	17	7	15	169
CL	NR	0	9	33	30	15	38	1	0	126
Measles	NR	0	6	6	78	1	0	0	0	91
S. Cholera	17	0	0	NR	9	6	10	16	1	59
Rabies / Dog bite	NR	0	12	3	9	4	0	2	0	30
Pertussis	NR	0	2	NR	6	2	0	1	0	11
Mumps	NR	0	1	NR	1	5	0	1	0	8
Gonorrhoea	NR	0	6	NR	0	2	0	0	0	8
Chickenpox	NR	0	0	NR	4	0	0	2	0	6
Chikungunya	NR	0	5	NR	0	0	0	0	0	5
Meningitis	NR	0	0	3	0	0	0	0	0	3
Leprosy	NR	0	0	NR	2	0	0	0	0	2

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



Khyber Pakhtunkhwa (KP)

- KP reported cases of AD (Non Cholera) (n=3,714), ILI (n=3,672), SARI (n=2,615), ALRI <5 years (n=1,531), Malaria (n=972), Typhoid (n=279), B. diarrhea (n=202), suspected Cholera (n=171), Rabies/Dog bite (n=115) & Dengue (n=78) at maximum.
- District Abbottabad reported maximum cases of AD (Non-Cholera).
- District Charsadda reported maximum cases of AD (Non-Cholera) & Malaria.
- District Haripur reported maximum cases of ILI, AD (Non-Cholera) & ALRI <5 years.
- 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 ALRI <5 years, ILI, AD (Non-Cholera), & 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, ILI & AD (Non-Cholera).
- Cases of Anthrax reported from Swat need immediate verification and response accordingly.
- Weekly cases of ILI & AD (Non-Cholera) have shown an increase in trend this week while SARI cases depicted a slight decline as compared to the last week i.e. week 47.
- Cases of Measles, Mumps, Pertussis, Diphtheria, Meningitis & Chickenpox have been reported which need vigilance, and public health response to reduce burden of VPDs.
- Cases of AFP need verification and further workup accordingly.

Figure 6: Most frequently reported cases during week 48, in comparison with previous weeks, KP

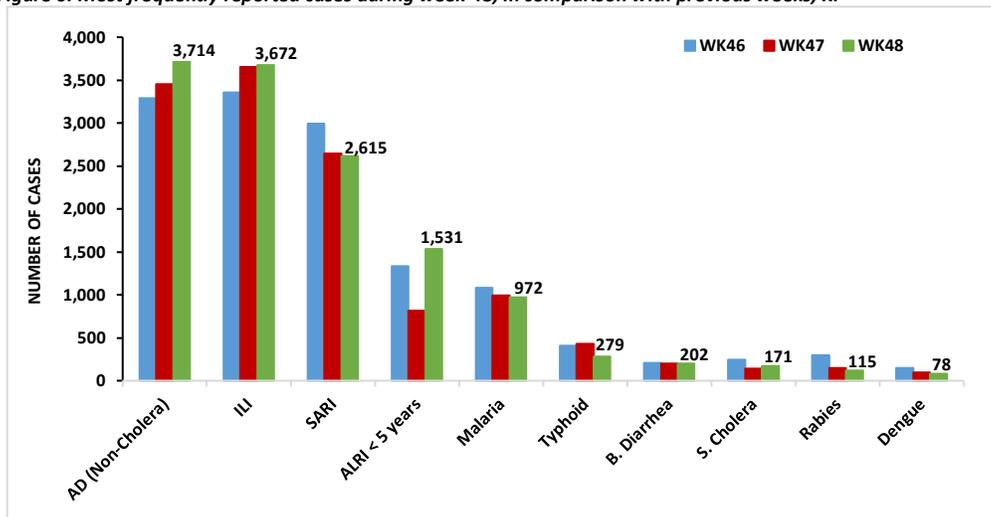
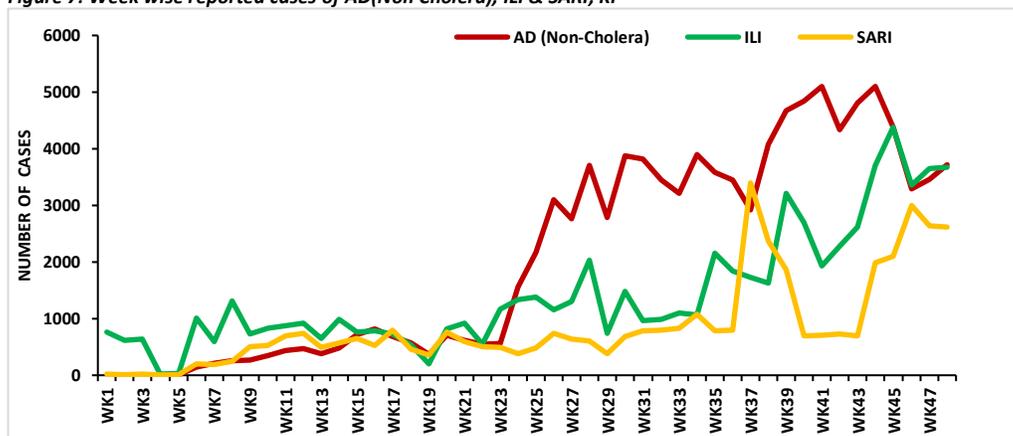


Table 4: District wise distribution of most frequently reported cases during week 48, KP

Diseases	Abbottabad	Charsadda	Haripur	Kohat	Lakki Marwat	Malakand	Swabi	Swat	Total
AD (Non-Cholera)	323	288	446	427	324	523	537	846	3,714
ILI	2	45	518	544	52	706	437	1,368	3,672
SARI	33	75	25	320	8	158	547	1,449	2,615
ALRI < 5 years	15	5	155	79	229	728	264	56	1,531
Malaria	0	125	19	114	565	43	45	61	972
Typhoid	12	46	30	26	33	27	48	57	279
B. Diarrhea	4	22	7	41	25	35	10	58	202
S. Cholera	1	5	17	46	3	8	34	57	171
Rabies / Dog bite	2	0	0	13	14	0	86	0	115
Dengue	0	0	4	12	37	0	25	0	78
VH (B, C & D)	0	0	0	16	3	7	26	7	59
Chickenpox	0	0	8	3	7	17	15	9	59
Pertussis	0	0	0	0	7	0	7	41	55
Measles	0	0	0	1	7	11	3	25	47
Mumps	0	0	4	0	17	3	1	17	42
CL	0	0	0	11	6	1	0	6	24
HIV/AIDS	0	0	0	0	0	0	0	11	11
Diphtheria	0	0	0	0	1	0	0	5	6
Meningitis	0	0	0	0	0	1	4	0	5
AFP	0	0	0	0	1	0	1	1	3
Anthrax	0	0	0	0	0	0	0	2	2
NT	0	0	0	0	1	0	0	0	1

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



Islamabad (ICT)

- From ICT, the most frequent reported diseases were ILI (n=328), AD (Non-Cholera) (n=191), ALRI <5 years (n=187), SARI (n=102), B. diarrhea (n=06), Chickenpox (n=06), Typhoid (n=06), Malaria (n=02), suspected Cholera (n=02) & VH (B, C & D) (n=02).
- During this week, a decrease in trend was observed for cases of ALRI <5 years while ILI & SARI cases are increasing as compared to last week i.e. Week 47.

(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=22), SARI (n=09), suspected Cholera (n=04) & Typhoid (n=02) this week.
- Weekly trend for cases of ALRI <5 years & SARI depicted an abrupt decline as compared to previous week i.e. Week-47.

(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 48, in comparison with previous weeks, ICT

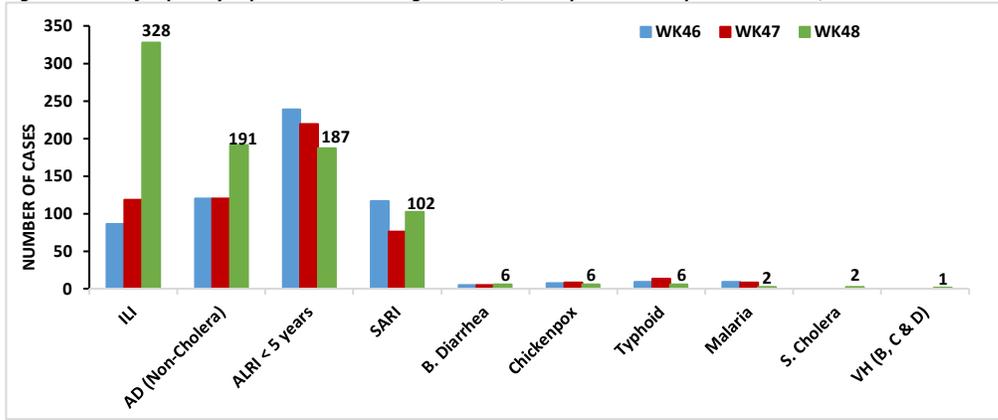


Figure 9: Week wise reported cases of ILI, ALRI <5 years & SARI, ICT

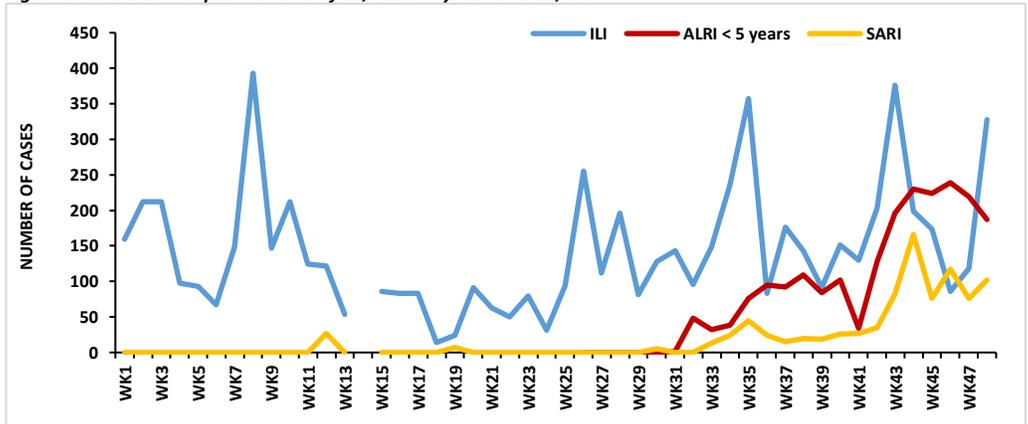


Figure 10: Most frequently reported cases during week 48, in comparison with previous weeks, GB

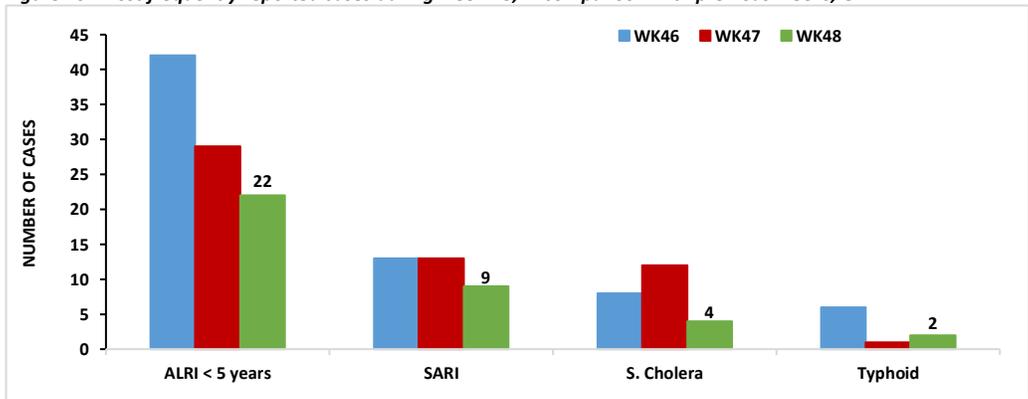
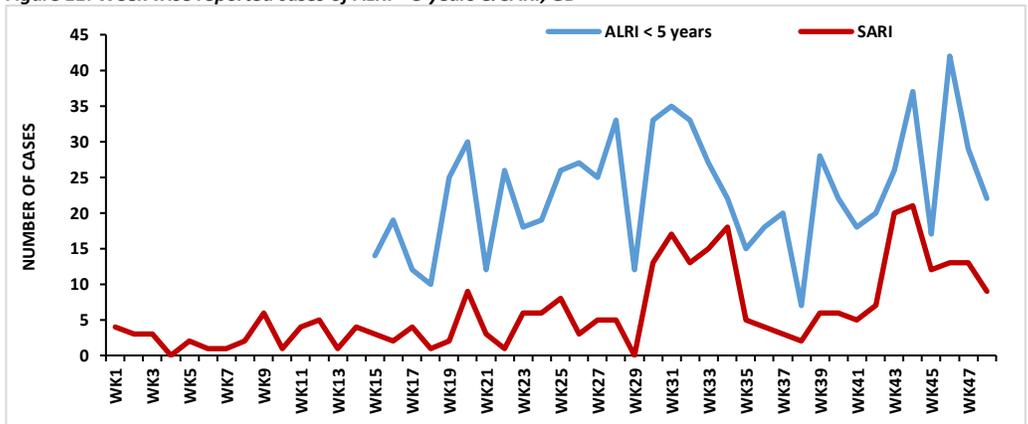


Figure 11: Week wise reported cases of ALRI <5 years & SARI, GB



AJK

- District Mirpur reported cases of AD (Non Cholera) & ILI at maximum this week.
- Weekly trend of ILI cases showed a rise whereas cases of AD (Non Cholera) are decreasing as compared to last week.

IDSR Participating Districts

- This week 16% (05/32) of districts reported hundred percent (%) data. Districts are Lakki Marwat, ICT & CDA (Islamabad), Khuzdar, and Killa Abdullah.
- Districts Nagar & Thatta did not report data this week.

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

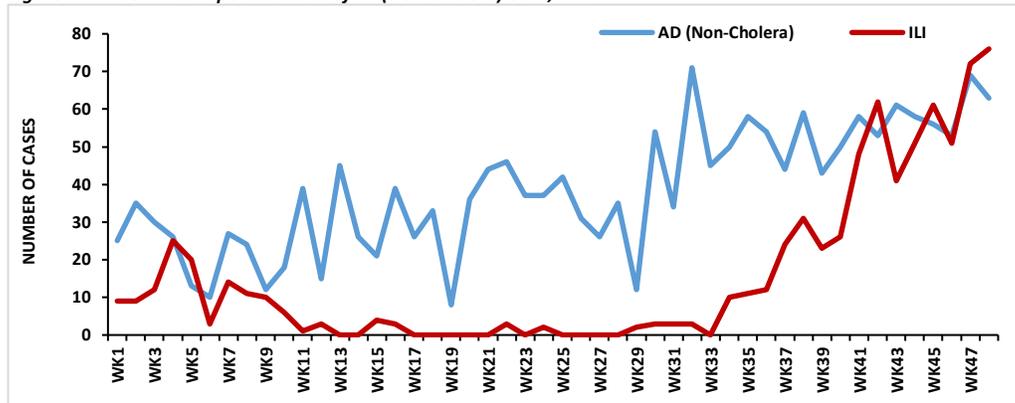


Table 5: IDSR reporting districts

Province	Districts	Total Number of Reporting Sites (ARS/Total)	Total Number of Sites that Reported (%)
Khyber Pakhtunkhwa	Haripur	69/69	59(86%)
	Kohat	59/59	52(89%)
	Abbottabad	110/110	89(81%)
	Charsadda	61/61	52(86%)
	Lakki Marwat	48/48	48(100%)
	Swat	77/77	42 (55%)
	Malakand	78/78	17(22%)
Azad Jammu Kashmir	Mirpur	37/37	31(84%)
	ICT	18/18	18(100%)
Islamabad Capital Territory	CDA	9/12	9(100%)
	Gwadar	24/24	17 (71%)
Balochistan	Kech	42/78	40(96%)
	Khuzdar	20/136	20 (100%)
	Killa Abdullah	28/50	28 (100%)
	Lasbella	83/83	68 (82%)
	Pishin	23/118	16 (70%)
	Quetta	22/77	20 (91%)
	Sibi	42/42	38 (91%)
	Zohb	37/37	20 (54%)
Gilgit Baltistan	Hunza	30/30	27(90%)
	Nagar	05/22	0
Sindh	Hyderabad	63/63	58 (92%)
	Karachi-East	14/14	12(86%)
	Karachi-Malir	43/43	27 (63%)
	Ghotki	58/58	34 (59%)
	Umerkot	30/118	06 (20%)
	Naushahro Feroze	52/52	28 (54%)
	Tharparkar	85/236	77 (91%)
	Shikarpur	32/32	13 (41%)
	Thatta	27/50	0
	Larkana	149/149	24 (16%)
Kamber	101/101	55 (54%)	

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