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Weekly Bulletin: Integrated Disease Surveillance and Response (IDSR)

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Highlights of the Epi-Week 50 (13th December – 19th December 2021)

Cumulative Information

- During this week, maximum cases reported were of ILI, Acute Diarrhea (Non Cholera), SARI, Malaria, ALRI <5 years, B. Diarrhea, Typhoid, suspected Cholera, Rabies/Dog bite & VH (B, C & D).
- In comparison with previous week i.e. Week-49, ILI, AD (Non Cholera), SARI & VH (B, C & D) have shown an increase trend while other diseases depicted a downward or similar trend.
- Persistent reporting of cases of Gonorrhoea & Syphilis from Sindh need urgent attention and differential diagnosis for proper follow up, and treatment.
- Cases of VPDs (Meningitis, Measles, Chickenpox & Mumps) reported from KP, Balochistan, ICT and Sindh warrant immediate attention of Immunization program to strengthen control the spread of VPDs.
- Cases of VH (B, C & D) reported from Sindh & KP province need immediate confirmation, and implementation of control measures accordingly.
- Reporting of cases of Rabies/Dog bite need urgent attention, and further workup according to One Health approach.
- Cases of AFP have been reported from KP & Sindh which need immediate verification and further public health actions accordingly.

Figure 1: Most frequently reported cases during week 50, in comparison with previous weeks, Pakistan

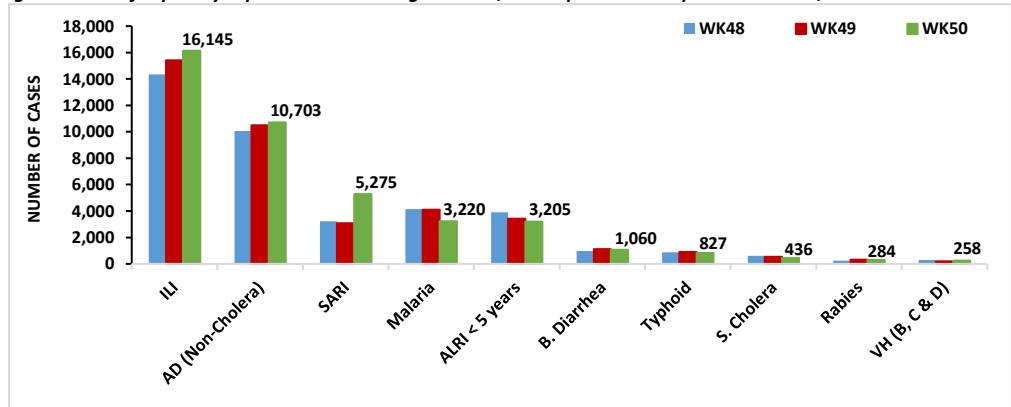


Table 1: Province/Area wise distribution of most frequently reported cases during week 50, Pakistan

Diseases	AJK	Balochistan	GB	ICT	KP	Sindh	Total
ILI	75	4,098	0	171	6,061	5,740	16,145
AD (Non-Cholera)	60	1,449	2	113	4,315	4,764	10,703
SARI	0	500	9	25	4,651	90	5,275
Malaria	0	639	0	1	859	1,721	3,220
ALRI < 5 years	56	275	8	72	932	1,862	3,205
B. Diarrhea	4	267	0	3	275	511	1,060
Typhoid	4	120	1	2	437	263	827
S. Cholera	0	63	1	10	213	149	436
Rabies / Dog bite	0	24	0	0	121	139	284
VH (B, C & D)	0	3	0	0	73	182	258
CL	0	117	0	0	34	0	151
AVH (A & E)	0	1	0	0	101	22	124
Measles	0	14	0	1	77	32	124
Chickenpox	0	8	0	3	84	19	114
Mumps	0	16	0	0	59	3	78
Dengue	0	1	0	0	17	25	43
Gonorrhoea	0	8	0	0	3	18	29
Meningitis	0	7	0	0	10	2	19
AFP	0	0	0	0	6	1	7
Syphilis	0	0	0	0	0	5	5

Points of Attention

- Malaria, and Typhoid cases are on rise especially in Balochistan and Sindh. The hotspots should be identified, epidemiological investigations should be carried to assess contributory risk factors, and timely response must be initiated.
- It is proposed to enhance community awareness on water, sanitation and hygiene (WASH) practices especially in diarrheal diseases and typhoid affected districts.
- Routine immunization is affected due to regular Polio campaigns and ongoing COVID-19 control activities. Consequently, VPD (Measles, Mumps) cases are reported each week. Therefore, **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 amongst those diseases. To reduce numbers, community awareness sessions may be arranged. 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=5,740), AD (Non Cholera) (n=4,764), ALRI <5 Years (n=1,862), Malaria (n=1,721), B. Diarrhea (n=511), Typhoid (n=263), VH (B, C & D) (n=182), suspected Cholera (n=149), Rabies/ Dog bite (n=139), & SARI (n=90).
- District Ghotki reported the maximum cases of ALRI <5 years, ILI & AD (Non Cholera).
- District Hyderabad reported maximum cases of ILI, AD (Non Cholera), ALRI <5 years & B. Diarrhea..
- From Kamber, AD (Non Cholera), Malaria & ALRI <5 years cases were at maximum.
- 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 cases of ILI, AD (Non Cholera) & Malaria at maximum.
- District Shikarpur reported AD (Non Cholera) cases at maximum.
- From Tharparkar, maximum cases of ILI, AD (Non-Cholera), Malaria & ALRI <5 years were reported.
- From Umerkot, cases of AD (Non Cholera) were reported at maximum.
- Cases of HIV/AIDS have been reported from Larkana which need immediate verification and response accordingly.
- Reporting of Anthrax & AFP cases needs urgent attention & response accordingly.
- There is a need to strengthen routine immunization to decrease disease burden of VPDS.
- This week, cases of ILI, ALRI <5 years & Typhoid declined as compared to previous week.

(Note: NR= Not Reported)

Figure 2: Most frequently reported cases during week 50, in comparison with previous weeks, Sindh

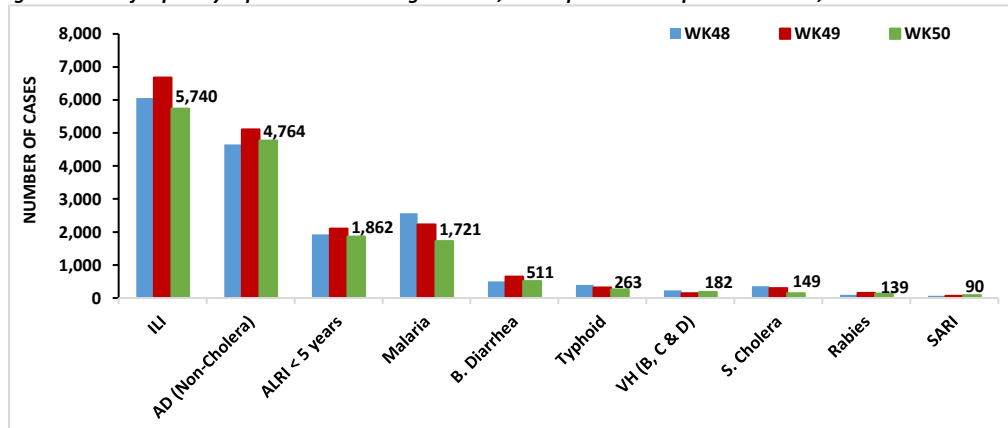
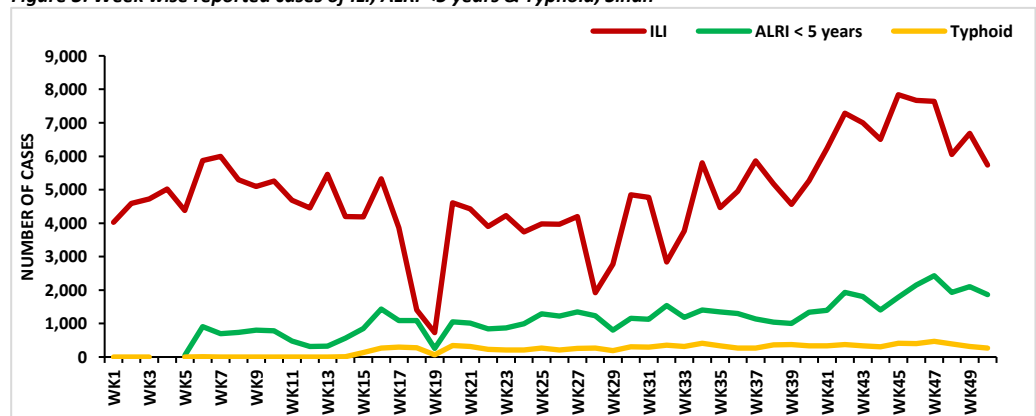


Table 2: District wise distribution of most frequently reported cases during week 50, Sindh

Diseases	Ghotki	Hyderabad	Kamber	Kar-East	Kar-Malir	Larkana	Naushahro Feroze	Shikarpur	Tharparkar	Umerkot	Total
ILI	161	3,432	0	5	429	0	545	5	1,163	0	5,740
AD (Non-Cholera)	130	1,770	478	167	653	344	159	127	895	41	4,764
ALRI < 5 years	218	463	148	5	336	91	89	29	470	13	1,862
Malaria	43	34	384	25	76	445	123	64	516	11	1,721
B. Diarrhea	67	133	58	3	78	48	10	32	78	4	511
Typhoid	20	15	74	0	76	21	27	0	29	1	263
VH (B, C & D)	34	62	50	0	13	4	3	6	10	0	182
S. Cholera	18	52	23	0	54	0	2	0	0	0	149
Rabies / Dog bite	41	3	50	0	6	7	1	19	12	0	139
SARI	9	20	0	0	6	39	0	8	8	0	90
Measles	6	2	1	0	0	0	9	2	12	0	32
Dengue	0	11	0	0	2	0	0	0	12	0	25
Chickenpox	0	4	0	1	14	0	0	0	0	0	19
Gonorrhea	0	10	6	0	0	0	2	0	0	0	18
HIV/AIDS	0	0	0	0	0	11	0	0	0	0	11
VL	0	NR	7	0	0	0	0	0	0	0	7
Pertussis	0	NR	0	0	1	3	0	0	0	0	4
Anthrax	0	0	0	0	0	3	0	0	0	0	3
AFP	0	NR	1	0	0	0	0	0	0	0	1

Figure 3: Week wise reported cases of ILI, ALRI <5 years & Typhoid, Sindh



Balochistan

- From Balochistan overall ILI (n=4,098), AD (Non Cholera) (n=1,449), Malaria (n=639), SARI (n=500), ALRI <5 years (n=275), B. diarrhea (n=267), Typhoid (n=120), CL (n=117), S. Cholera (n=63) & Pertussis (n=48) 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 & Malaria.
- District Killa Abdullah reported maximum cases of ILI & AD (Non Cholera).
- District Lasbella reported maximum cases for AD (Non-Cholera), Malaria, ALRI <5 years & SARI.
- District Pishin reported cases for ILI at maximum.
- 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 SARI & ILI.
- Cases of CCHF, and anthrax from district Sibi & Brucellosis from Khuzdar need immediate verification & response according to One Health perspective.
- Cases of VPDs have been regularly reported, and therefore, needs strengthening of routine immunization system.
- In comparison with last week, cases of ILI have shown a downward trend while cases of SARI & ALRI <5 years have been increased.

Figure 4: Most frequently reported cases during week 50, in comparison with previous weeks, Balochistan

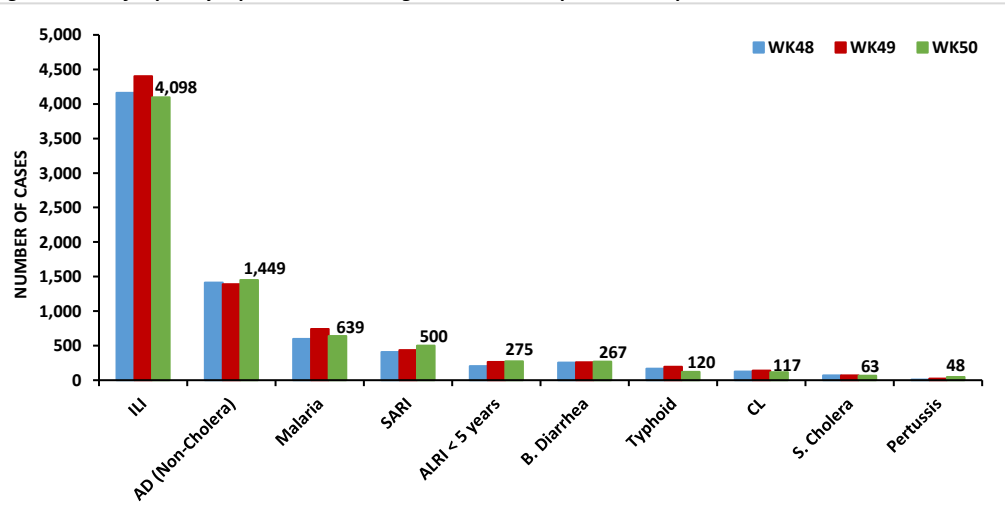
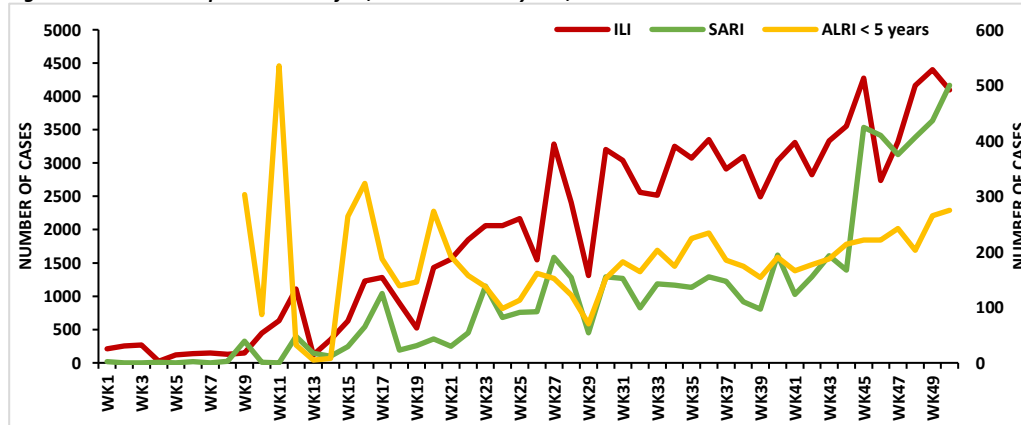


Table 3: District wise distribution of most frequently reported cases during week 50, Balochistan

Diseases	Gwadar	Kech	Khuzdar	Killa Abdullah	Lasbella	Pishin	Quetta	Sibi	Zhob	Total
ILI	713	1,356	121	339	77	390	640	247	215	4,098
AD (Non-Cholera)	169	303	82	271	244	53	197	89	41	1,449
Malaria	72	130	88	5	232	11	14	39	48	639
SARI	NR	104	19	NR	115	8	0	13	241	500
ALRI < 5 years	8	58	5	NR	145	23	0	31	5	275
B. Diarrhea	25	60	32	NR	28	36	24	22	40	267
Typhoid	4	17	13	3	18	20	15	17	13	120
CL	NR	0	6	40	27	7	34	3	0	117
S. Cholera	NR	0	4	NR	13	5	13	20	8	63
Pertussis	NR	0	1	NR	4	8	0	29	6	48
Rabies / Dog bite	NR	0	11	1	6	3	0	3	0	24
CCHF	NR	0	0	NR	0	0	0	17	0	17
Mumps	NR	1	3	NR	0	3	0	9	0	16
Anthrax	NR	0	0	NR	0	0	0	15	0	15
Measles	NR	0	4	7	3	0	0	0	0	14
Meningitis	NR	0	0	7	0	0	0	0	0	7
Brucellosis	NR	0	2	NR	0	0	0	0	0	2
NT	NR	0	0	NR	1	0	0	0	0	1

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



Khyber Pakhtunkhwa (KP)

- KP reported cases of ILI (n=6,061), SARI (n=4,651), AD (Non Cholera) (n=4,315), ALRI <5 years (n=932), Malaria (n=859), Typhoid (n=437), B. diarrhea (n=275), suspected Cholera (n=213), Rabies/Dog bite (n=121) & AVH (A&E) (n=101) at maximum.
- District Abbottabad reported maximum cases of AD (Non-Cholera).
- District Charsadda reported maximum cases of AD (Non-Cholera), Malaria & ILI.
- 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 ILI, AD (Non-Cholera), ALRI <5 years & SARI.
- District Swabi reported maximum cases of SARI, AD (Non-Cholera), ALRI <5 years & ILI.
- District Swat reported maximum cases of ILI, SARI, AD (Non-Cholera), Typhoid, ALRI <5 years & B. diarrhea.
- Cases of Measles, Mumps, Pertussis, Chickenpox & Meningitis have been reported which need immediate action to reduce burden of VPDs.
- Cases of AFP & Anthrax need verification and further workup accordingly.
- Cases of Brucellosis need immediate verification & response in accordance with the One Health approach.
- Weekly cases of ILI, SARI & ALRI <5 years depicted an upward trend as compared to the last week i.e. week 49.

Figure 6: Most frequently reported cases during week 50, in comparison with previous weeks, KP

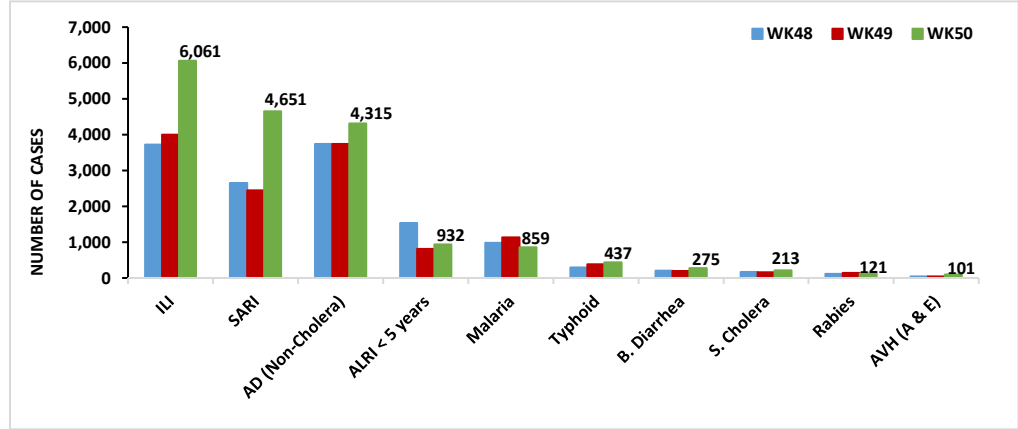
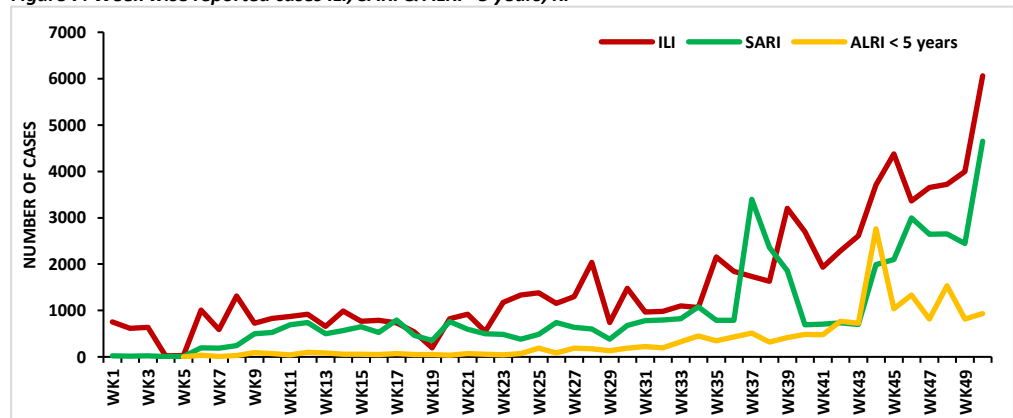


Table 4: District wise distribution of most frequently reported cases during week 50, KP

Diseases	Abbottabad	Charsadda	Haripur	Kohat	Lakki Marwat	Malakand	Swabi	Swat	Total
ILI	2	116	1,219	449	23	1,713	225	2,314	6,061
SARI	22	80	87	237	21	154	1,787	2,263	4,651
AD (Non-Cholera)	347	508	689	303	286	434	476	1,272	4,315
ALRI <5 years	14	33	151	81	109	204	231	109	932
Malaria	0	171	21	149	425	32	19	42	859
Typhoid	8	62	75	9	50	19	80	134	437
B. Diarrhea	1	38	10	71	11	33	8	103	275
S. Cholera	2	5	43	46	6	9	32	70	213
Rabies / Dog bite	1	0	0	18	22	0	72	8	121
AVH (A & E)	0	0	53	0	1	17	7	23	101
Chickenpox	0	0	12	0	0	9	21	42	84
Anthrax	0	0	80	0	0	0	0	0	80
Measles	0	0	17	0	12	6	4	38	77
VH (B, C & D)	1	0	0	24	23	0	21	4	73
Mumps	0	0	1	0	12	5	2	39	59
Meningitis	0	0	0	0	0	0	10	0	10
Pertussis	0	0	0	0	0	0	0	6	6
AFP	0	0	0	0	2	0	3	1	6
Brucellosis	0	0	0	0	0	0	0	5	5
Chikungunya	0	0	0	0	0	0	0	2	2
NT	0	0	0	0	0	0	1	0	1

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



Islamabad (ICT)

- From ICT, the most frequent reported diseases were ILI (n=171), AD (Non-Cholera) (n=113), ALRI <5 years (n=72), SARI (n=25), suspected Cholera (n=10), B. diarrhea (n=03), Chickenpox (n=03), Typhoid (n=02), Malaria (n=01) & Measles (n=01).
- During this week, a sharp decline was observed for cases of ILI & ALRI <5 years as compared to last week i.e. Week 49.

(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 50, in comparison with previous weeks, ICT

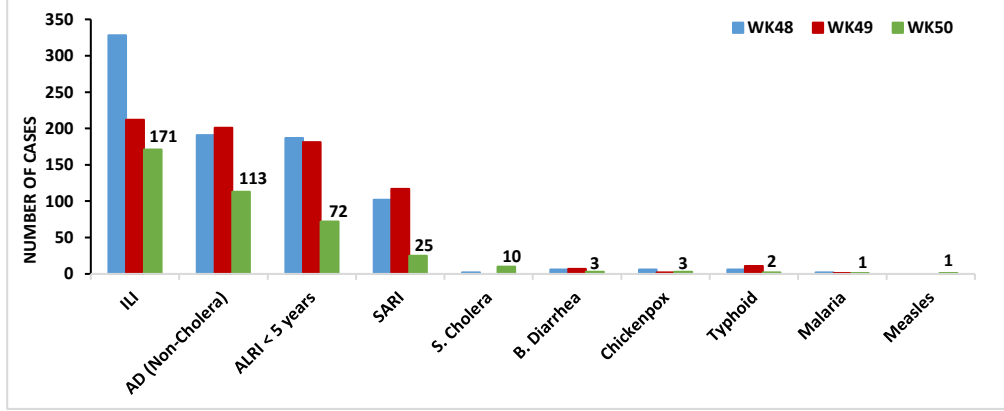


Figure 9: Week wise reported cases of ILI & ALRI <5 years, ICT

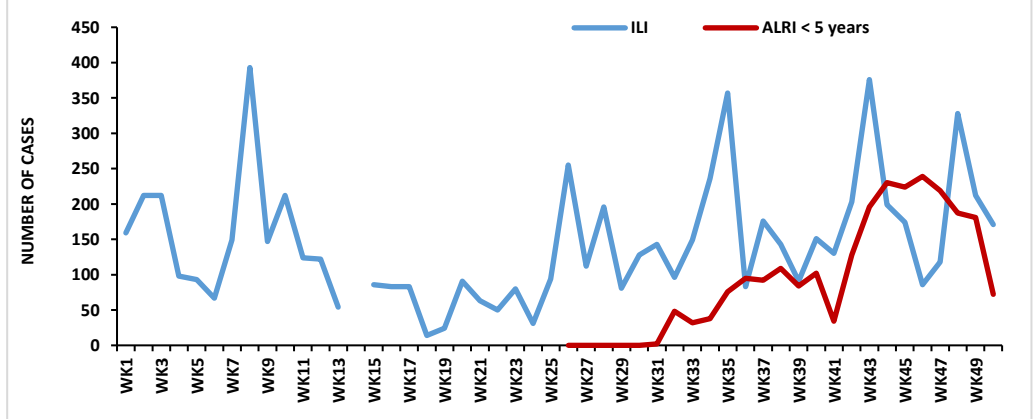


Figure 10: Most frequently reported cases during week 50, in comparison with previous weeks, GB

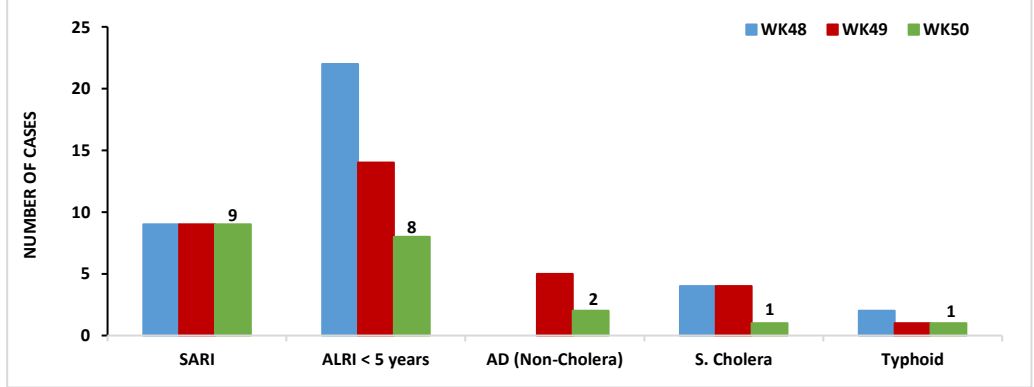
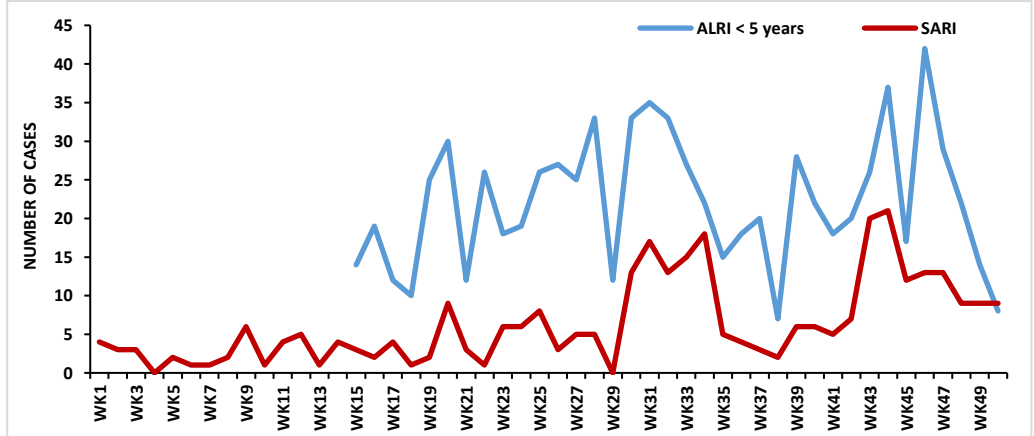


Figure 11: Week wise reported cases of ALRI <5 years & SARI, GB



Gilgit Baltistan

- Gilgit-Baltistan reported cases of SARI (n=09), ALRI <5 years (n=08), AD (Non Cholera) (n=02), suspected Cholera (n=01) & Typhoid (n=01) this week.
- Weekly trend for cases of ALRI <5 years have shown a sharp decline while cases of SARI depicted a similar trend as compared to previous week i.e. Week-49.

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

AJK

- District Mirpur reported cases of ILI & ALRI <5 years at maximum this week.
- Weekly trend of ILI & ALRI <5 years cases have shown a marked incline as compared to last week.

IDSR Participating Districts

- This week 16% (05/32) of districts reported hundred percent (100%) data. Districts are Lakki Marwat, Kech, Killa Abdullah, Lasbella & Karachi East.
- Districts Nagar & Thatta did not report data this week.

Figure 12: Week wise reported cases of ILI & ALRI <5 years, AJK

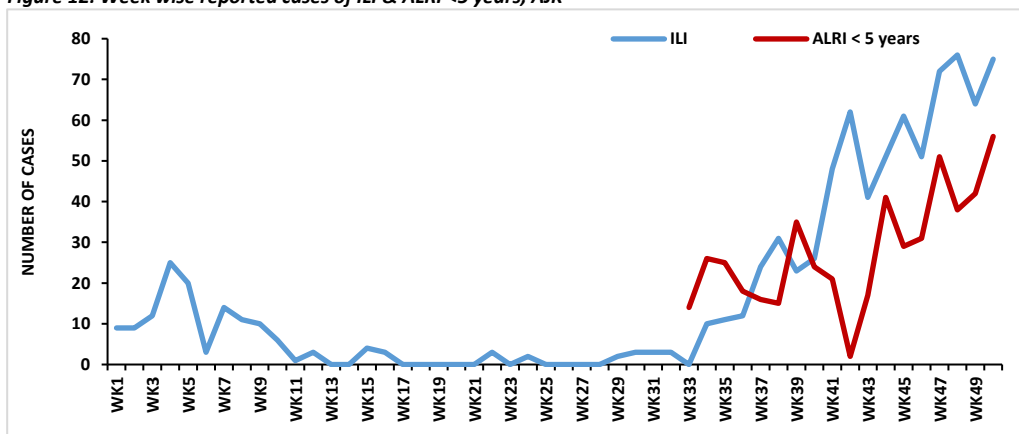


Table 5: IDSR reporting districts

Province	Districts	Total Number of Reporting Sites (ARS/Total)	Total Number of Sites that Reported (%)
Khyber Pakhtunkhwa	Haripur	69/69	63 (92%)
	Kohat	59/59	58 (99%)
	Abbottabad	110/110	90 (82%)
	Charsadda	61/61	51 (84%)
	Lakki Marwat	49/49	49 (100%)
	Swat	77/77	61 (80%)
	Malakand	78/78	20 (26%)
	Swabi	63/63	61 (97%)
Azad Jammu Kashmir	Mirpur	37/37	20 (54%)
Islamabad Capital Territory	ICT	18/18	15 (84%)
	CDA	9/12	7 (78%)
Balochistan	Gwadar	24/24	20 (84%)
	Kech	43/78	43 (100%)
	Khuzdar	20/136	19 (95%)
	Killa Abdullah	28/50	28 (100%)
	Lasbella	83/83	83 (100%)
	Pishin	23/118	14 (61%)
	Quetta	22/77	19 (87%)
	Sibi	42/42	38 (91%)
	Zohb	37/37	19 (52%)
Gilgit Baltistan	Hunza	30/30	29 (97%)
	Nagar	05/22	0
Sindh	Hyderabad	63/63	46 (73%)
	Karachi-East	14/14	14 (100%)
	Karachi-Malir	43/43	37 (86%)
	Ghotki	58/58	31 (54%)
	Umerkot	30/118	2 (7%)
	Naushahro Feroze	52/52	25 (48%)
	Tharparkar	85/236	72 (85%)
	Shikarpur	32/32	12 (38%)
	Thatta	27/50	0
	Larkana	149/149	30 (21%)
	Kamber	101/101	60 (60%)

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