



# Field Epidemiology and Disease Surveillance Division (FEDSD)

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### Weekly Bulletin: Integrated Disease Surveillance and Response (IDSR)

30<sup>th</sup> December 2021

#### Highlights of the Epi-Week 51 (20<sup>th</sup> – 26<sup>th</sup> December 2021)

##### Cumulative Information

- During this week, maximum cases reported were of ILI, Acute Diarrhea (Non Cholera), SARI, ALRI <5 years, Malaria, B. Diarrhea, Typhoid, suspected Cholera, Rabies / Dog bite & VH (B, C & D).
- In comparison with previous week i.e. Week-50, all diseases have depicted a downward trend.
- Persistent reporting of cases of Gonorrhoea from Sindh & Balochistan need urgent attention and differential diagnosis for proper follow up and treatment.
- Cases of VPDs (Measles, Chickenpox & Mumps) reported from KP, Balochistan and Sindh warrant immediate attention of Immunization program to strengthen control the spread of VPDs.
- Cases of VH (B, C & D) reported from Balochistan, Sindh & KP province need urgent attention to confirm and to implement control measures accordingly.
- Reporting of cases of Rabies/Dog bite warrants urgent attention and further workup according to One Health approach.
- Cases of Anthrax reported from Sindh need immediate verification and response accordingly.

Figure 1: Most frequently reported cases during week 51, in comparison with previous weeks, Pakistan

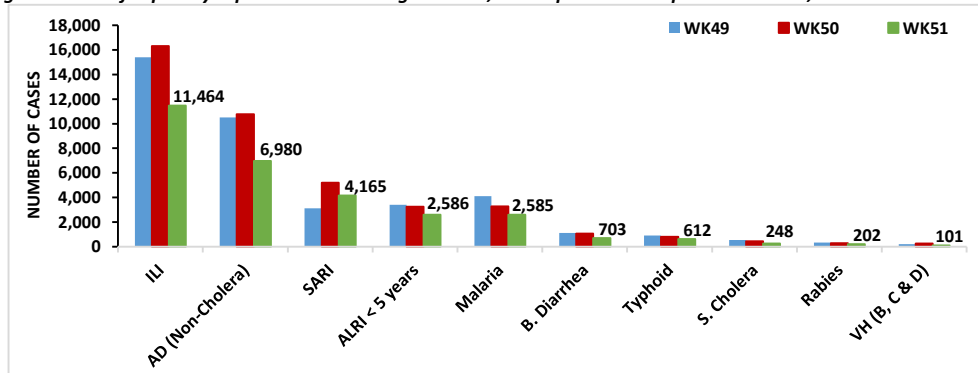


Table 1: Province/Area wise distribution of most frequently reported cases during week 51, Pakistan

Diseases	AJK	Balochistan	GB	ICT	KP	Sindh	Total
ILI	63	2,894	15	266	3,428	4,798	11,464
AD (Non-Cholera)	63	1,091	6	119	3,535	2,166	6,980
SARI	1	450	9	21	3,629	55	4,165
ALRI < 5 years	56	393	19	128	794	1,196	2,586
Malaria	0	386	0	0	1,066	1,133	2,585
B. Diarrhea	2	191	4	5	232	269	703
Typhoid	0	167	1	6	287	151	612
S. Cholera	0	40	1	2	132	73	248
Rabies / Dog bite	0	22	0	0	170	10	202
CL	0	103	0	0	0	0	103
VH (B, C & D)	0	5	0	0	24	72	101
Measles	0	23	0	1	49	8	81
Dengue	0	5	0	0	6	43	54
AVH (A & E)	0	6	0	0	36	7	49
Mumps	0	9	0	0	30	1	40
Chickenpox	0	11	0	0	21	7	39
Anthrax	0	0	0	0	0	35	35
Gonorrhoea	0	24	0	0	0	6	30

##### Points of Attention

- Malaria and Typhoid cases are on rise especially in Balochistan and Sindh. Hotspot areas should be identified, risk factors should be investigated, and public health actions should be taken to control the diseases.**
- 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 COVID-19 pandemic activities. Vaccine preventable diseases (Measles, Mumps) cases are reporting 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 amongst those diseases. To reduce case numbers, community awareness sessions may be arranged. At provincial level a comprehensive Rabies control plan based on One Health approach 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=4,798), AD (Non Cholera) (n=2,166), ALRI <5 Years (n=1,196), Malaria (n=1,133), B. diarrhea (n=269), Typhoid (n=151), suspected Cholera (n=73), VH (B, C & D) (n=72), SARI (n=55) & Dengue (n=43).
- District Hyderabad reported the maximum cases of ILI, AD (Non Cholera) & ALRI <5 years.
- From Kamber, Malaria & AD (Non Cholera) 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.
- District Shikarpur reported AD (Non Cholera) & Malaria cases at maximum.
- From Tharparkar, cases of ILI, AD (Non Cholera), ALRI <5 years & Malaria were reported at maximum.
- Cases of HIV/AIDS have been reported from Hyderabad, and Larkana which need immediate verification and response accordingly.
- One case each of AFP and Brucellosis reported from Karachi Malir which need urgent attention, and further public health actions 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 51, in comparison with previous weeks, Sindh

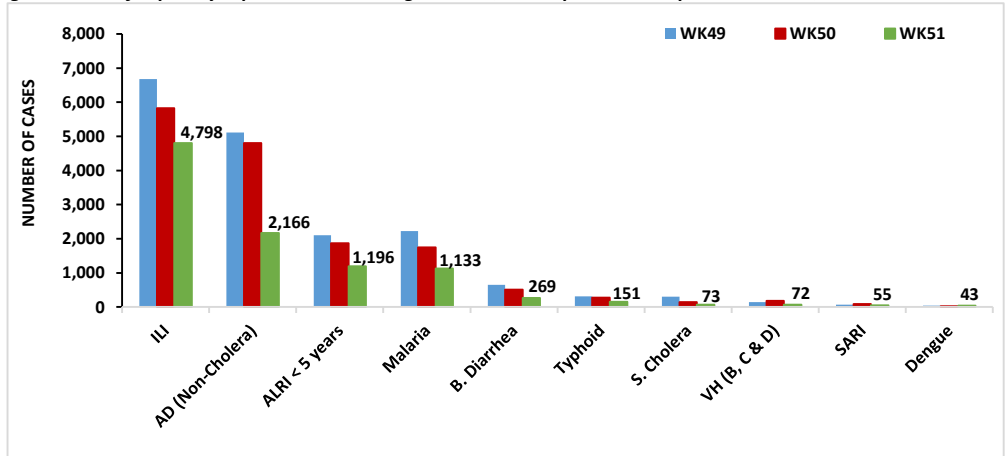
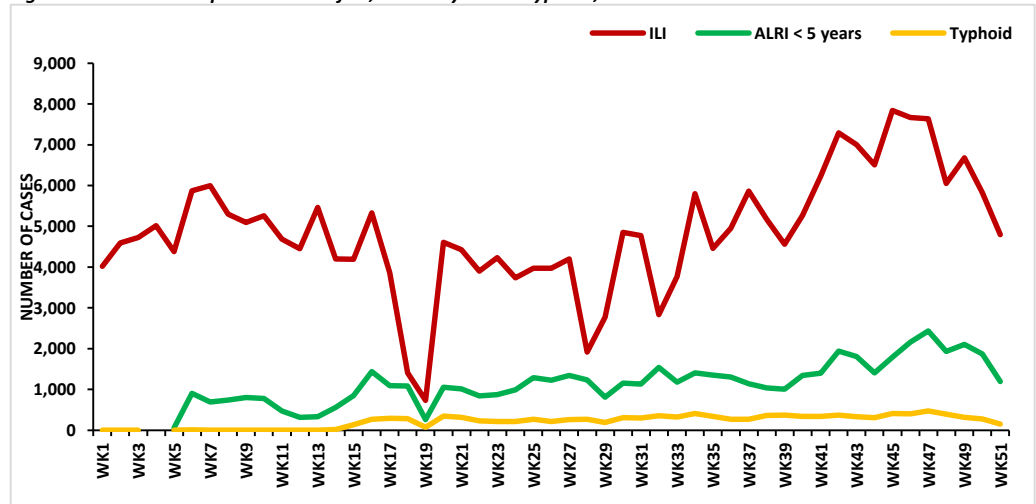


Table 2: District wise distribution of most frequently reported cases during week 51, Sindh

Diseases	Hyderabad	Kamber	Kar- East	Kar- Malir	Larkana	Shikarpur	Tharparkar	Total
ILI	2,873	0	3	471	7	0	1,444	4,798
AD (Non-Cholera)	150	218	136	530	257	60	815	2,166
ALRI < 5 years	126	95	2	292	94	6	581	1,196
Malaria	8	231	21	67	384	44	378	1,133
B. Diarrhea	52	50	7	53	44	4	59	269
Typhoid	14	28	1	37	16	0	55	151
S. Cholera	NR	0	0	73	0	0	0	73
VH (B, C & D)	7	12	1	3	17	0	32	72
SARI	6	0	0	10	36	0	3	55
Dengue	2	0	0	5	0	0	36	43
Anthrax	NR	0	0	35	0	0	0	35
Rabies / Dog bite	NR	0	0	6	2	1	1	10
Measles	1	0	0	2	0	0	5	8
AVH (A & E)	2	0	0	0	0	0	5	7
Chickenpox	NR	0	2	3	0	0	2	7
Gonorrhea	1	3	0	2	0	0	0	6
Syphilis	1	0	0	1	1	0	2	5
HIV/AIDS	1	0	0	0	3	0	0	4
AFP	NR	0	0	1	0	0	0	1
Brucellosis	NR	0	0	1	0	0	0	1

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



### Balochistan

- From Balochistan overall ILI (n=2,894), AD (Non Cholera) (n=1,091), SARI (n=450), ALRI <5 years (n=393), Malaria (n=386), B. diarrhea (n=191), Typhoid (n=167), CL (n=103), S. Cholera (n=40) & Gonorrhoea (n=24) remained at maximum.
- District Kech reported maximum cases of ILI & AD (Non-Cholera).
- District Khuzdar reported maximum cases of ILI & AD (Non-Cholera).
- District Killa Abdullah reported maximum cases of AD (Non Cholera) & ILI.
- District Lasbella reported maximum cases for Malaria, AD (Non-Cholera), ALRI <5 years, ILI & SARI.
- District Pishin reported cases for ILI & ALRI <5 years at maximum.
- District Quetta reported maximum cases for ILI & AD (Non-Cholera).
- District Sibi reported maximum cases of ILI this week.
- District Zhob reported maximum cases of SARI & ILI.
- Cases of CRS reported from districts Zhob & Sibi need immediate verification, response actions, and follow up accordingly.
- Cases of VPDs have been reported regularly. Therefore, there is a need to work closely with EPI for strengthening of routine immunization system.
- In comparison with last week, cases of ALRI <5 years have shown an upward trend while cases of ILI & SARI have been declined.

Figure 4: Most frequently reported cases during week 51, in comparison with previous weeks, Balochistan

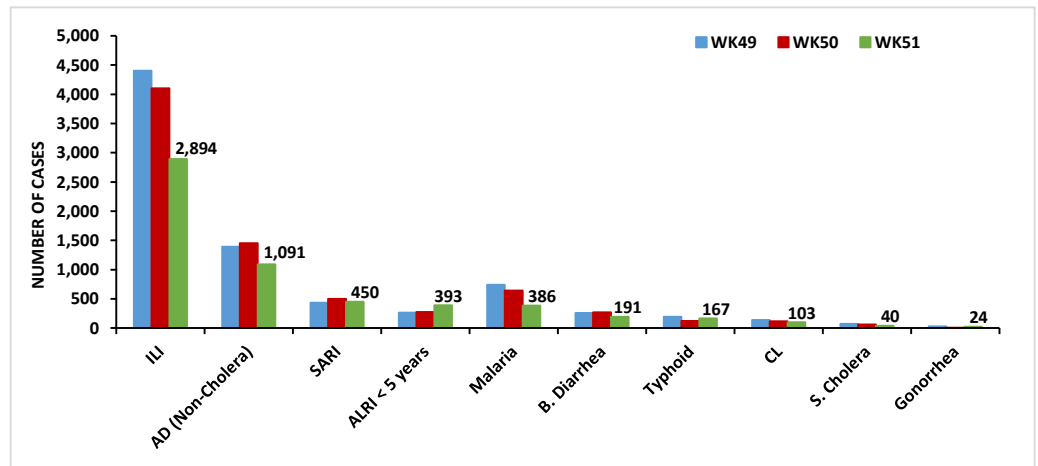
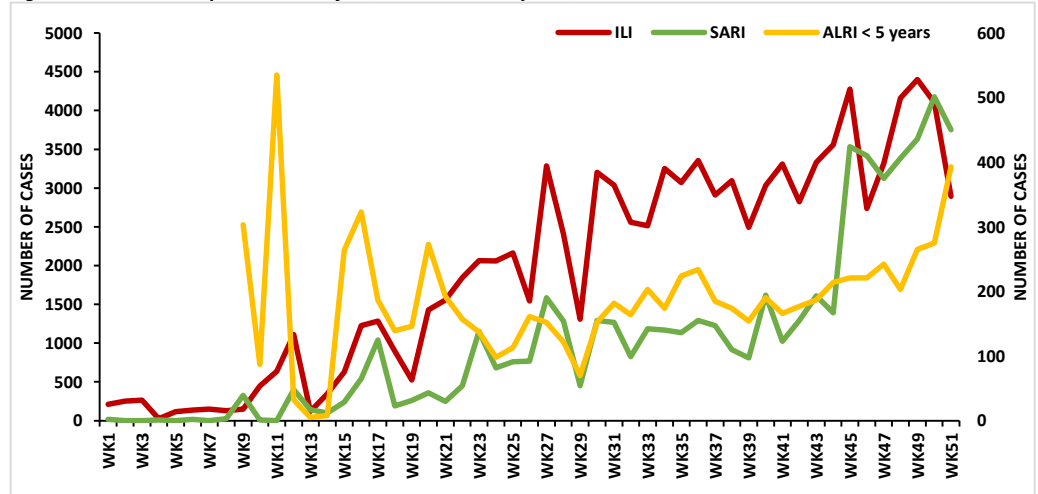


Table 3: District wise distribution of most frequently reported cases during week 51, Balochistan

Diseases	Kech	Khuzdar	Killa Abdullah	Lasbella	Pishin	Quetta	Sibi	Zhob	Total
ILI	945	119	301	102	318	720	132	257	2,894
AD (Non-Cholera)	212	85	264	165	49	212	45	59	1,091
SARI	38	22	NR	76	0	11	7	296	450
ALRI < 5 years	30	19	NR	144	154	0	14	32	393
Malaria	42	65	8	210	9	11	34	7	386
B. Diarrhea	29	38	NR	15	30	6	13	60	191
Typhoid	2	48	6	22	21	15	31	22	167
CL	0	14	31	13	7	36	2	0	103
S. Cholera	0	1	NR	13	11	6	6	3	40
Gonorrhoea	0	16	NR	0	7	0	1	0	24
Measles	0	3	5	14	0	0	1	0	23
Rabies / Dog bite	0	7	2	10	3	0	0	0	22
Pertussis	0	2	NR	5	4	0	2	4	17
CRS	0	NR	NR	0	0	0	2	11	13
Chickenpox	0	NR	NR	9	0	0	0	2	11
Mumps	0	2	NR	1	0	0	5	1	9
AVH (A & E)	0	NR	NR	0	0	0	1	5	6
VH (B, C & D)	0	2	NR	3	0	0	0	0	5
Dengue	5	NR	NR	0	0	0	0	0	5
Meningitis	0	NR	3	0	0	0	0	0	3

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



### Khyber Pakhtunkhwa (KP)

- KP reported cases of SARI (n=3,629), AD (Non Cholera) (n=3,535), ILI (n=3,428), Malaria (n=1,066), ALRI <5 years (n=794), Typhoid (n=287), B. diarrhea (n=232), Rabies/Dog bite (n=170), suspected Cholera (n=132) & Measles (n=49) at maximum.
- District Abbottabad reported maximum cases of AD (Non-Cholera).
- District Charsadda reported maximum cases of Malaria, AD (Non-Cholera), ILI & SARI.
- District Haripur reported maximum cases of AD (Non-Cholera), ILI & ALRI <5 years.
- District Kohat reported maximum cases of ILI, AD (Non Cholera), SARI, Malaria & ALRI <5 years.
- District Lakki Marwat reported maximum cases of Malaria, AD (Non-Cholera) & ALRI <5 years.
- District Malakand reported maximum cases of AD (Non Cholera).
- District Swabi reported maximum cases of SARI, AD (Non Cholera), ILI, ALRI <5 years & Rabies / Dog bite.
- District Swat reported maximum cases of ILI, SARI, AD (Non Cholera) & B. diarrhea.
- Two cases of CCHF from Swat and one case of Brucellosis from Haripur were reported which need immediate attention and response according to One Health approach.
- Cases of NT, Measles, Mumps, Pertussis, Meningitis & Chickenpox have been reported demanding vigilant action to reduce burden of VPDs.
- Cases of AFP have been reported which need verification and further workup accordingly.
- Weekly cases of ILI, SARI & ALRI <5 years cases depicted a decline in trend as compared to the last week i.e. week 50.

Figure 6: Most frequently reported cases during week 51, in comparison with previous weeks, KP

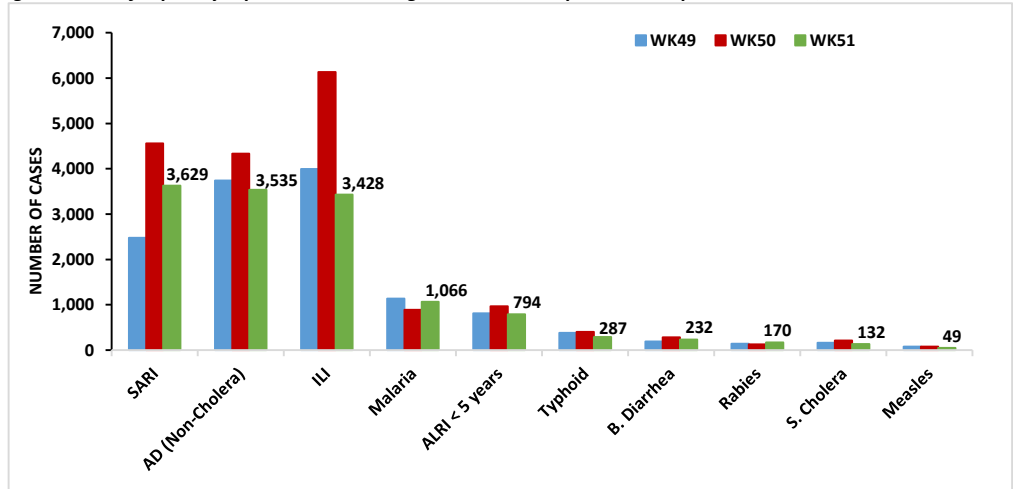
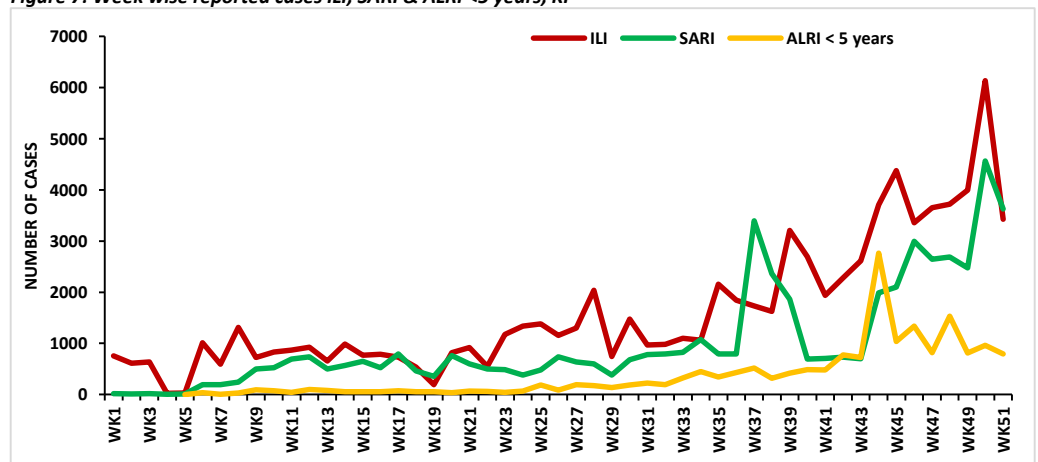


Table 4: District wise distribution of most frequently reported cases during week 51, KP

Diseases	Abbottabad	Charsadda	Haripur	Kohat	Lakki Marwat	Malakand	Swabi	Swat	Total
SARI	14	86	69	245	25	0	1,324	1,866	3,629
AD (Non-Cholera)	334	475	715	267	283	23	446	992	3,535
ILI	2	106	451	423	62	0	431	1,953	3,428
Malaria	0	508	23	119	348	1	22	45	1,066
ALRI < 5 years	10	40	175	101	177	0	210	81	794
Typhoid	11	79	34	14	34	0	30	85	287
B. Diarrhea	1	21	55	43	3	3	14	92	232
Rabies / Dog bite	3	0	0	25	23	0	113	6	170
S. Cholera	1	30	34	5	0	0	25	37	132
Measles	0	0	14	0	5	0	2	28	49
AVH (A & E)	0	0	14	0	0	0	2	20	36
Mumps	0	0	5	1	1	0	3	20	30
VH (B, C & D)	0	0	0	0	0	0	23	1	24
Chickenpox	0	0	6	0	1	2	11	1	21
NT	0	0	20	0	0	0	0	0	20
Meningitis	0	0	0	0	7	0	10	0	17
AFP	0	0	1	0	1	0	4	1	7
Pertussis	0	0	0	0	0	0	3	1	4
CCHF	0	0	0	0	0	0	0	2	2
Brucellosis	0	0	1	0	0	0	0	0	1

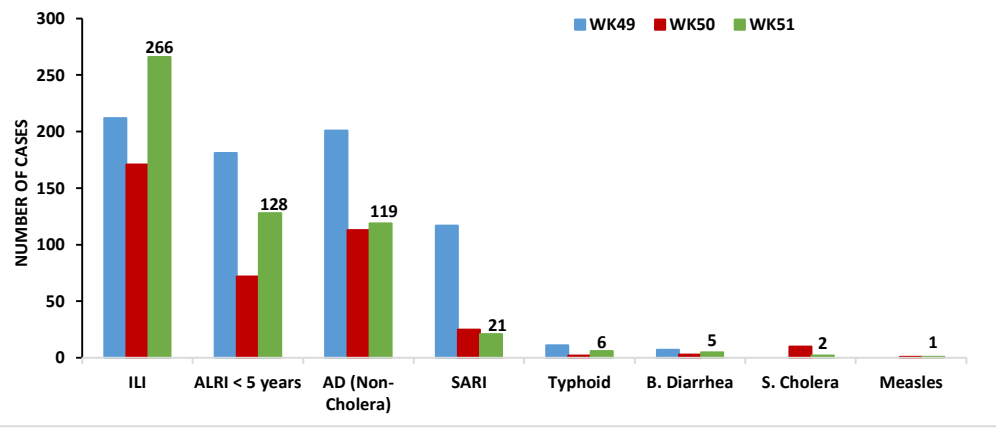
Figure 7: Week wise reported cases ILI, SARI & ALRI <5 years, KP



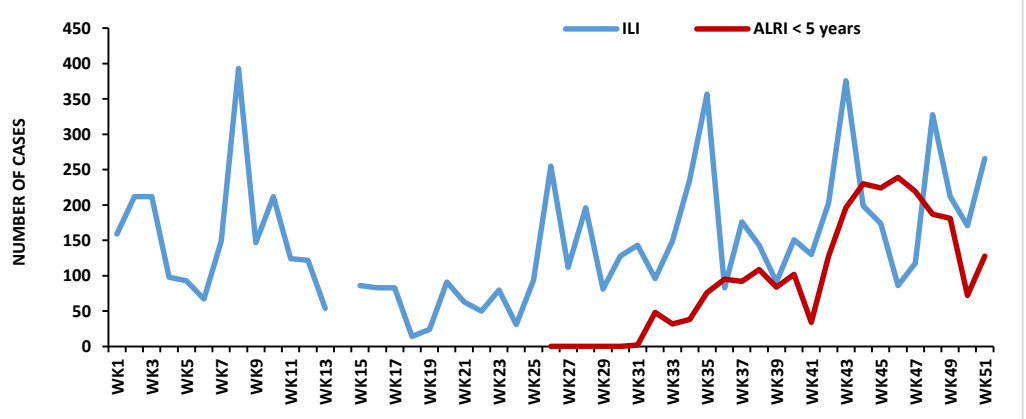
**Islamabad (ICT)**

- From ICT, the most frequent reported diseases were ILI (n=266), ALRI <5 years (n=128), AD (Non-Cholera) (n=119), SARI (n=21), Typhoid (n=06), B. diarrhea (n=05), suspected Cholera (n=02) & Measles (n=01).
  - During this week, a sharp rise in trend was observed for cases of ILI & ALRI <5 years as compared to last week i.e. Week 50.
- (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 51, in comparison with previous weeks, ICT**



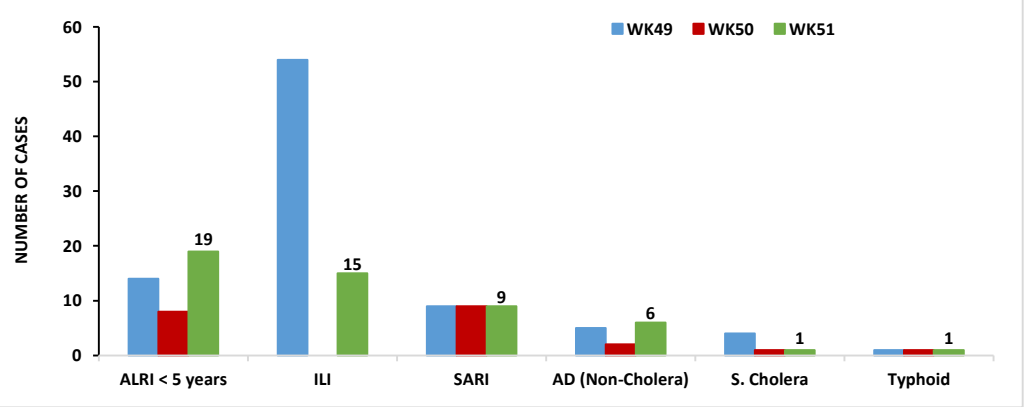
**Figure 9: Week wise reported cases of ILI & ALRI <5 years, ICT**



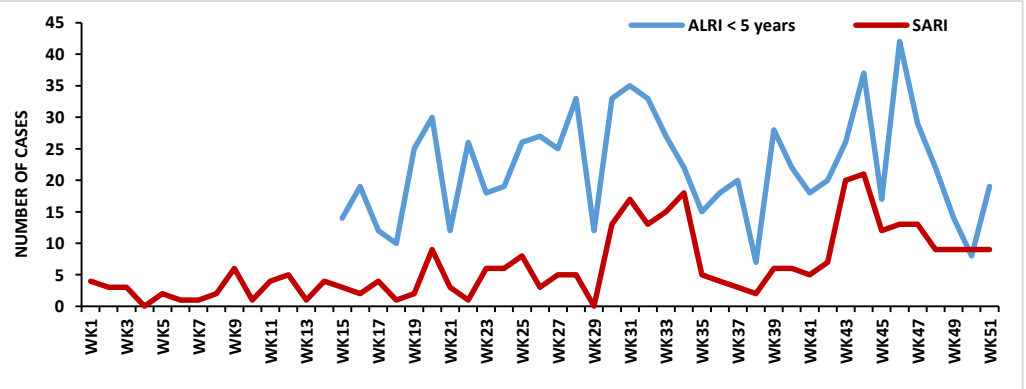
**Gilgit Baltistan**

- Gilgit-Baltistan reported cases of ALRI <5 years (n=19), ILI (n=15), SARI (n=09), AD (Non Cholera) (n=06), suspected Cholera (n=01) & Typhoid (n=01) this week.
  - Weekly trend for cases of ALRI <5 years have shown a sharp rise while cases of SARI depicted a similar trend as compared to previous week i.e. Week-50.
- (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 51, in comparison with previous weeks, GB**



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



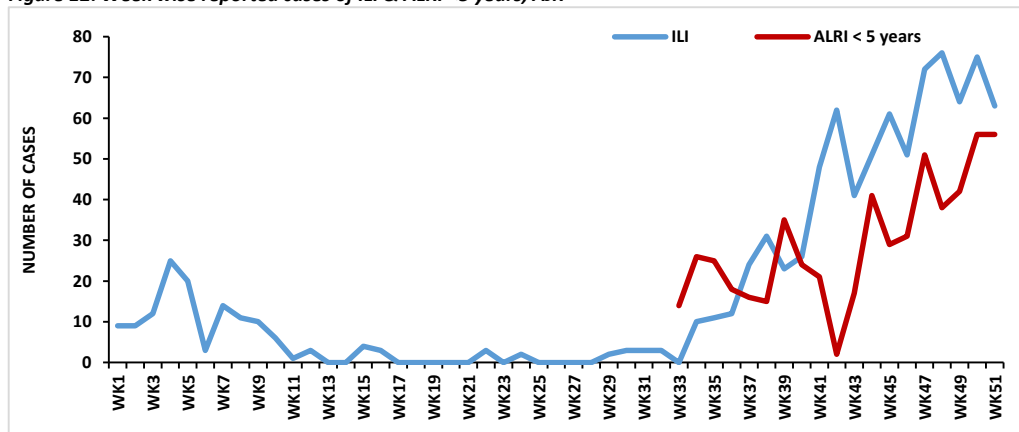
**AJK**

- District Mirpur reported cases of ILI & ALRI <5 years at maximum this week.
- Weekly trend of ILI cases showing a sharp decline whereas cases of ALRI <5 years are showing same trend as compared to last week.

**IDSR Participating Districts**

- This week 16% (05/32) of districts reported hundred percent (%) data. Districts are CDA (Islamabad), Khuzdar, Killa Abdullah, Lasbella & Karachi East.
- Districts Ghotki, Naushahro Feroze, Thatta & Umerkot reported data after the given timeline.

**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	62 (90%)
	Kohat	59/59	57 (97%)
	Abbottabad	110/110	88 (80%)
	Charsadda	61/61	54 (89%)
	Lakki Marwat	49/49	48 (99%)
	Swat	77/77	63 (82%)
	Malakand	78/78	05 (07%)
	Swabi	63/63	57 (91%)
Azad Jammu Kashmir	Mirpur	37/37	32 (87%)
Islamabad Capital Territory	ICT	18/18	14 (78%)
	CDA	9/12	9 (100%)
Balochistan	Gwadar	24/24	12 (50%)
	Kech	43/78	42 (99%)
	Khuzdar	20/136	20 (100%)
	Killa Abdullah	28/50	28 (100%)
	Lasbella	83/83	83 (100%)
	Pishin	23/118	11 (48%)
	Quetta	22/77	19 (87%)
	Sibi	42/42	37 (90%)
	Zohb	37/37	20 (54%)
Gilgit Baltistan	Hunza	30/30	28 (94%)
	Nagar	05/22	03 (60%)
Sindh	Hyderabad	63/63	56 (77%)
	Karachi-East	14/14	14 (100%)
	Karachi-Malir	43/43	32 (86%)
	Ghotki	58/58	39 (68%)
	Umerkot	30/118	6 (20%)
	Naushahro Feroze	52/52	21 (41%)
	Tharparkar	85/236	66 (78%)
	Shikarpur	32/32	09 (29%)
	Thatta	27/50	12 (45%)
	Larkana	149/149	29 (20%)
	Kamber	101/101	45 (45%)

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