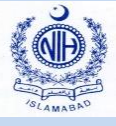




# Field Epidemiology and Disease Surveillance Division (FEDSD)

## National Institute of Health (NIH), Islamabad

Phone: 051- 9255237, Email: [idsr-pak@nih.org.pk](mailto:idsr-pak@nih.org.pk)



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

2<sup>nd</sup> December 2021

#### Highlights of the Epi-Week 47 (22<sup>nd</sup> – 28<sup>th</sup> November 2021)

##### Cumulative Information

- During this week, maximum cases reported were of ILI, Acute Diarrhea (Non Cholera), Malaria, ALRI <5 years, SARI, Typhoid, B. Diarrhea, suspected Cholera, VH (B, C & D) & Rabies / Dog bite.
- In comparison with previous week i.e. Week-46, cases of ILI, AD (Non Cholera), Malaria and B. Diarrhea have shown an upward trend while cases of remaining diseases depicted a downward or similar trend.
- Typhoid and Ad (Non Cholera) cases are reported from all three numbers in large numbers. A focused and Multisector coordination is required to carry out both human & vector surveillance and implement control measures accordingly.
- Cases of Gonorrhoea and Syphilis have been reported which need urgent attention and differential diagnosis for proper follow up and treatment.
- Cases of VPDs (Pertussis, Meningitis, CRS & Mumps) reported from KP, Balochistan, ICT and Sindh and warrant immediate attention of Immunization program to strengthen control the spread of VPDs.
- Cases of VH (B, C & D) are reported from Sindh & Balochistan province which need urgent attention to confirm and to implement control measures accordingly.

Figure 1: Most frequently reported cases during week 47, in comparison with previous weeks, Pakistan

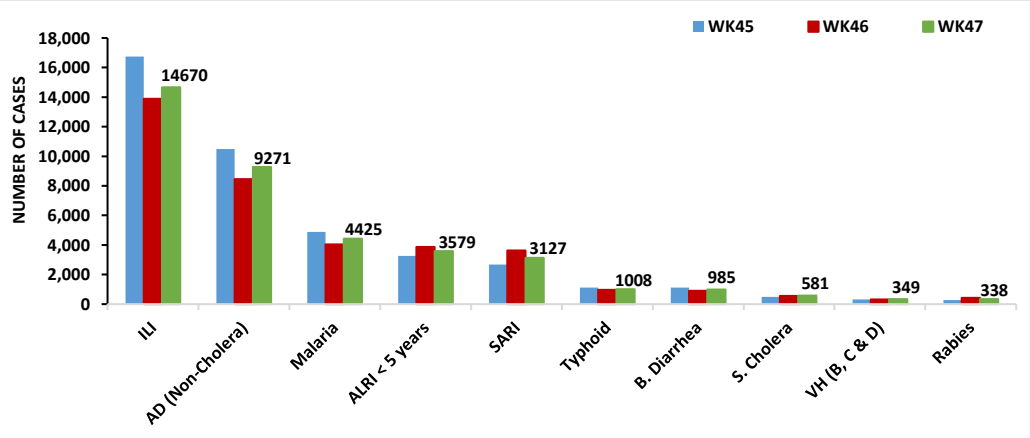


Table 1: Province/Area wise distribution of most frequently reported cases during week 47, Pakistan

Diseases	Balochistan	GB	ICT	KP	Sindh	Total
ILI	3,317	27	118	3,651	7,557	14,670
AD (Non-Cholera)	1,302	0	120	3,434	4,415	9,271
Malaria	764	0	8	990	2,663	4,425
ALRI < 5 years	242	29	219	811	2,278	3,579
SARI	375	13	76	2,595	68	3,127
Typhoid	161	1	13	430	403	1,008
B. Diarrhea	246	5	5	202	527	985
S. Cholera	123	12	0	121	325	581
VH (B, C & D)	4	0	0	82	263	349
Rabies / Dog bite	21	0	0	161	156	338
Dengue	11	0	0	97	187	295
Pertussis	50	0	0	70	2	122
Mumps	14	0	0	31	31	76
AVH (A & E)	1	0	0	41	23	65
CRS	10	0	0	45	0	55
Gonorrhoea	13	0	0	2	17	32
Meningitis	2	0	0	0	7	9
Syphilis	0	0	0	0	2	2

##### Points of Attention

- Despite low temperature, Malaria, Typhoid and Dengue cases are on rise especially in Balochistan and Sindh, causative and contributing factors for such hotspots areas should be identified for investigation 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.
- Due to regular Polio campaigns and ongoing COVID-19 activities, Health Care Workers (HCWs) are quite overburdened. As a result routine immunization is affected. 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 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=7,557), AD (Non Cholera) (n=4,415), Malaria (n=2,663), ALRI <5 Years (n=2,278), B. diarrhea (n=527), Typhoid (n=403), suspected Cholera (n=325), VH (B, C & D) (n=263), Dengue (n=187), & Rabies/ Dog bite (n=156).
- District Ghotki reported the maximum cases of ALRI <5 years, ILI, AD (Non Cholera), VH (B, C & D) & suspected Cholera.
- District Hyderabad reported maximum cases of ILI, AD (Non Cholera), ALRI <5 years, suspected Cholera & Dengue.
- From Kamber, Malaria, AD (Non Cholera), Typhoid & ILI 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 & B. diarrhea were reported at maximum.
- Naushahro Feroze reported cases of ILI, AD (Non Cholera), Malaria & ALRI <5 years at maximum.
- District Shikarpur reported AD (Non Cholera) cases at maximum.
- From Tharparkar, maximum cases of ILI, AD (Non-Cholera), Malaria, ALRI <5 years, Dengue & Typhoid were reported.
- From Thatta, cases of Malaria & ILI were at maximum.
- A cluster of three AIDS cases from a single family is reported from Hyderabad, which need thorough reporting to identify source to halt further spread.
- There is a need to strengthen routine immunization to decrease disease burden of VPDs.
- This week, an abrupt incline in case trend observed for Typhoid cases while Dengue cases showing downward trend as compared to previous week & ILI cases depicted the similar trend.

(Note: NR= Not Reported)

Figure 2: Most frequently reported cases during week 47, in comparison with previous weeks, Sindh

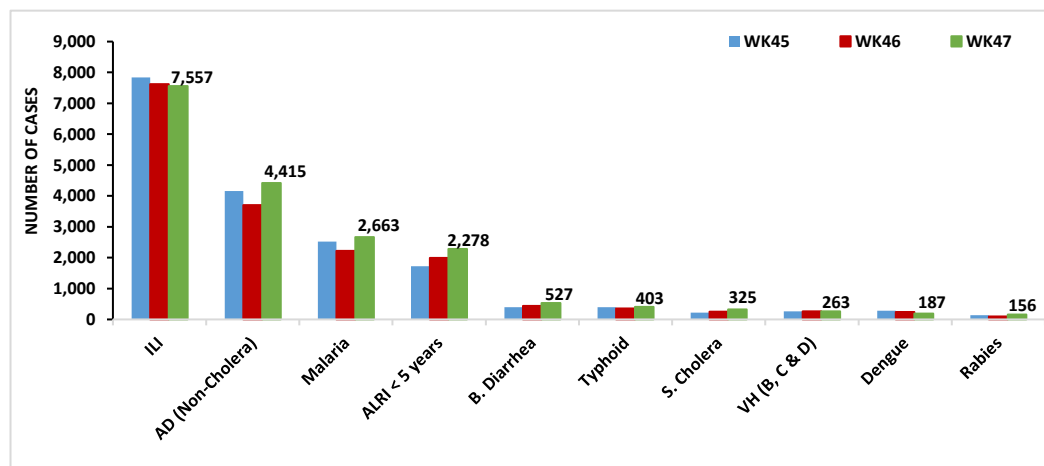
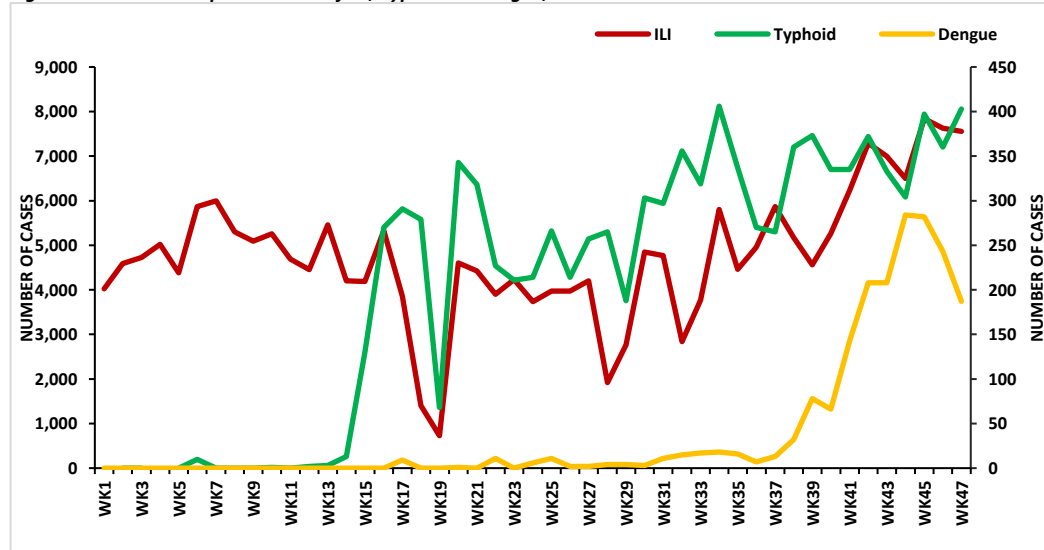


Table 2: District wise distribution of most frequently reported cases during week 47, Sindh

Diseases	Ghotki	Hyder-abad	Kamber	Karachi East	Karachi Malir	Larkana	Naushahro Feroze	Shikarpur	Tharparkar	Thatta	Total
ILI	140	4,239	120	10	450	0	944	7	1,486	161	7,557
AD (Non-Cholera)	140	1,069	592	147	684	378	310	87	934	74	4,415
Malaria	55	83	606	27	72	429	263	5	837	286	2,663
ALRI <5 years	185	690	212	5	356	239	92	18	422	59	2,278
B. Diarrhea	50	90	99	6	67	97	28	15	70	5	527
Typhoid	14	15	130	2	69	31	62	0	72	8	403
S. Cholera	86	191	32	0	8	6	0	0	0	2	325
VH (B, C & D)	113	73	21	0	11	11	9	14	11	0	263
Dengue	1	112	0	0	16	0	0	0	58	0	187
Rabies / Dog bite	42	NR	64	0	21	3	1	17	8	0	156
SARI	1	21	20	0	10	0	0	6	9	1	68
Measles	14	9	1	3	1	0	0	0	6	0	34
Mumps	2	NR	22	1	6	0	0	0	0	0	31
Anthrax	0	0	0	0	8	0	0	0	0	0	8
Meningitis	0	NR	0	0	0	0	7	0	0	0	7
AFP	0	1	1	1	0	0	0	0	1	0	4
HIV/AIDS	0	3	0	0	0	0	0	0	0	0	3

Figure 3: Week wise reported cases of ILI, Typhoid & Dengue, Sindh



### Balochistan

- From Balochistan overall ILI (n=3,317), AD (Non Cholera) (n=1,302), Malaria (n=764), SARI (n=375), B. diarrhea (n=246), ALRI <5 years (n=242), Typhoid (n=161), S. Cholera (n=123), CL (n=91) and Pertussis (n=50) 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) & ALRI <5 years.
- District Pishin reported more cases for AD (Non Cholera) & ILI.
- District Quetta reported maximum cases for ILI & AD (Non-Cholera).
- Sibi reported maximum cases of ILI, AD (Non Cholera) & Malaria.
- District Zhob reported maximum cases of ILI, SARI & Malaria.
- VPD cases like Pertussis, Measles & Chickenpox have been regularly reported, and therefore, needs strengthening of routine immunization system.
- Zoonotic diseases like Dog bites & Brucellosis are regularly reported which need urgent attention and response accordingly.
- In comparison with last week, cases of ILI increased while Typhoid cases have been started to decline. Moreover, AD (Non Cholera) cases have shown a similar trend.

Figure 4: Most frequently reported cases during week 47, in comparison with previous weeks, Balochistan

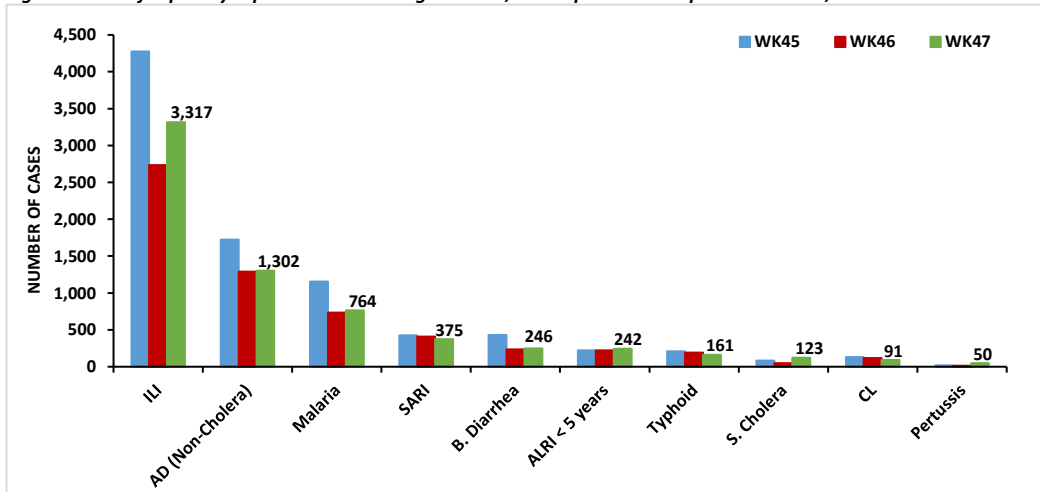
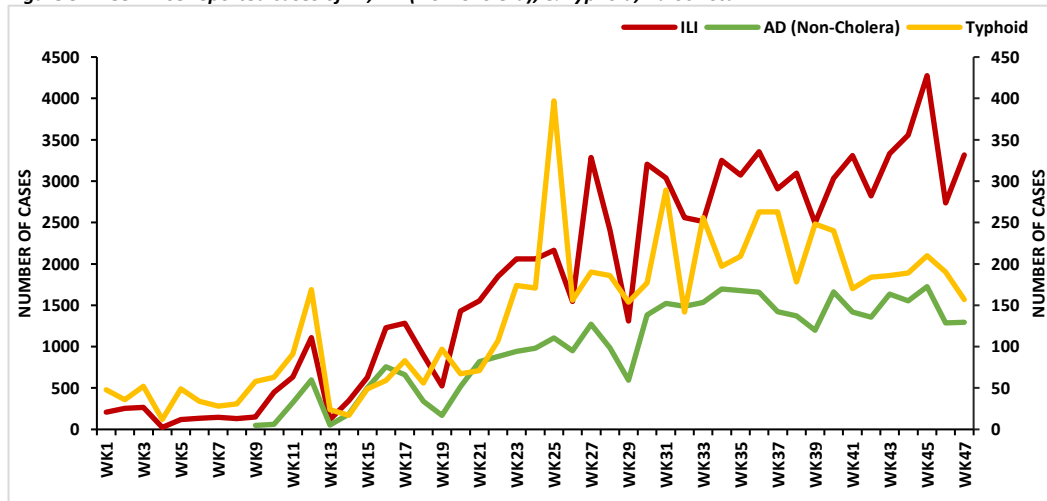


Table 3: District wise distribution of most frequently reported cases during week 47, Balochistan

Diseases	Gwadar	Kech (Turbat)	Khuzdar	Killa Abdullah	Lasbella	Pishin	Quetta	Sibi	Zhob	Total
ILI	689	992	86	377	51	11	504	356	251	3,317
AD (Non-Cholera)	183	212	80	259	158	12	206	150	42	1,302
Malaria	50	88	60	8	366	2	14	81	95	764
SARI	1	37	6	NR	89	0	0	9	233	375
B. Diarrhea	52	22	46	1	16	12	26	36	35	246
ALRI < 5 years	11	45	9	NR	116	2	0	13	46	242
Typhoid	6	3	52	2	16	10	22	23	27	161
S. Cholera	18	18	0	NR	43	0	28	15	1	123
CL	NR	0	5	42	11	2	29	2	0	91
Pertussis	NR	0	4	NR	4	0	0	30	12	50
Rabies / Dog bite	NR	0	11	2	5	0	0	3	0	21
Measles	NR	0	3	7	6	0	0	0	0	16
Dengue	NR	8	0	NR	3	0	0	0	0	11
CRS	NR	10	0	NR	0	0	0	0	0	10
Chickenpox	NR	0	1	NR	4	0	0	1	1	7
Leprosy	NR	0	0	NR	0	0	0	0	4	4
Brucellosis	NR	0	0	NR	2	0	0	0	0	2
AVH (A & E)	NR	0	0	NR	1	0	0	0	0	1

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



### Khyber Pakhtunkhwa (KP)

- KP reported cases of ILI (n=3,651), AD (Non Cholera) (n=3,434), SARI (n=2,595), Malaria (n=990), ALRI <5 years (n=811), Typhoid (n=430), B. diarrhea (n=202), Rabies/Dog bite (n=161), suspected Cholera (n=121) & Dengue (n=97) at maximum.
- District Abbottabad reported maximum cases of AD (Non-Cholera) & SARI.
- District Charsadda reported maximum cases of AD (Non-Cholera) & Malaria.
- District Haripur reported maximum cases of ILI, AD (Non-Cholera), ALRI <5 years & SARI.
- 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 & Malaria.
- District Swabi reported maximum cases of ILI, SARI, AD (Non-Cholera), ALRI <5 years & Rabies/Dog bite.
- District Swat reported maximum cases of SARI, ILI, AD (Non-Cholera) & Typhoid.
- Weekly cases of ILI & Typhoid have shown an increase in trend this week while Dengue cases have declined as compared to the last week i.e. week 46.
- Cases of Measles, Mumps, Pertussis, CRS & Chickenpox have been reported demanding vigilant action to reduce burden of VPDs.
- Cases of AFP need verification and further workup accordingly.
- Despite the fact that weather is changing, cases of Typhoid are regularly reported from all reporting districts of KP. A Multisector coordinated approach is required to address this issue.

Figure 6: Most frequently reported cases during week 47, in comparison with previous weeks, KP

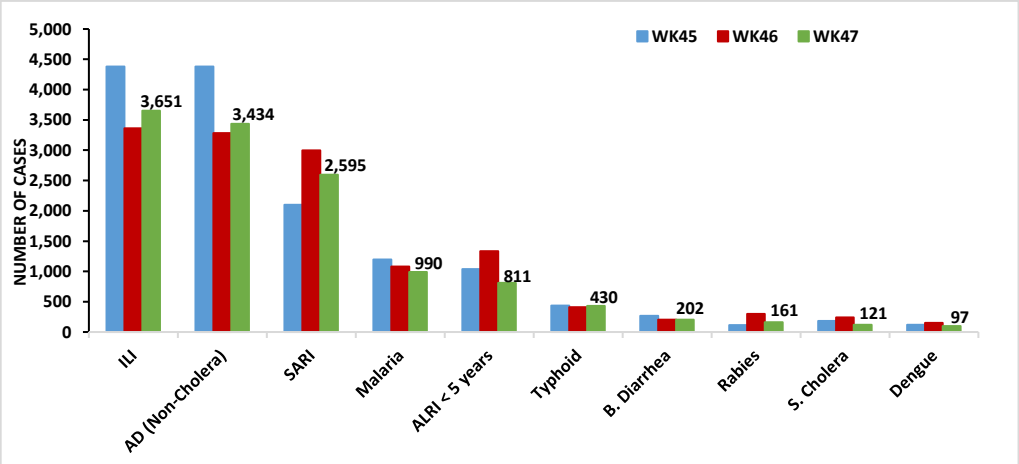
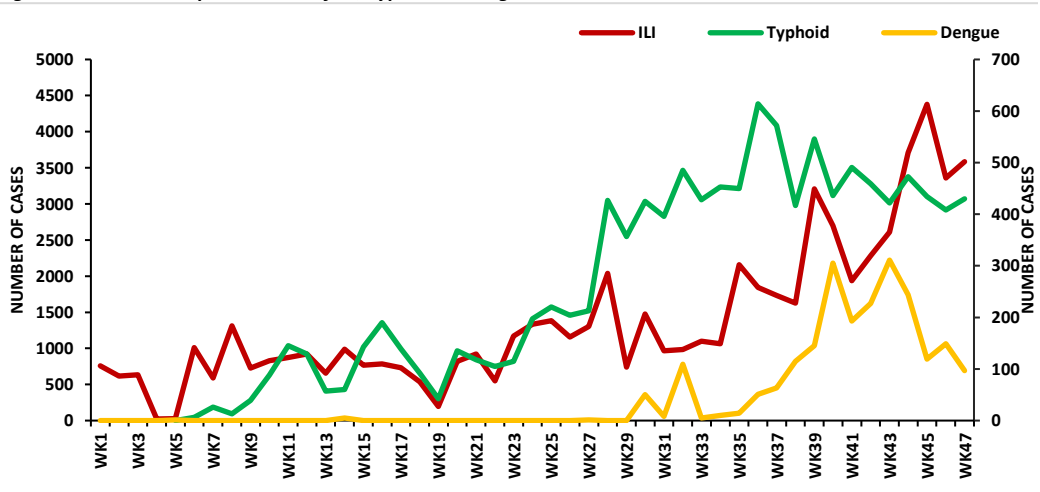


Table 4: District wise distribution of most frequently reported cases during week 47, KP

Diseases	Abbottabad	Charsadda	Haripur	Kohat	Lakki Marwat	Malakand	Swabi	Swat	Total
ILI	3	35	1,280	518	30	80	529	1,176	3,651
AD (Non-Cholera)	344	424	734	379	265	72	387	829	3,434
SARI	51	49	95	344	13	0	444	1,599	2,595
Malaria	0	97	29	157	500	60	60	87	990
ALRI < 5 years	18	2	190	90	165	61	213	72	811
Typhoid	14	52	76	39	51	12	87	99	430
B. Diarrhea	3	24	41	36	11	9	14	64	202
Rabies / Dog bite	1	0	0	21	14	1	99	25	161
S. Cholera	0	2	21	49	1	5	32	11	121
Dengue	0	0	25	11	40	0	21	0	97
VH (B, C & D)	0	0	0	27	8	0	23	24	82
Pertussis	0	0	0	0	7	2	10	51	70
Chickenpox	0	0	11	2	0	3	14	38	68
CRS	0	0	0	0	0	0	0	45	45
AVH (A & E)	0	0	31	0	0	0	10	0	41
Measles	0	0	14	0	3	0	0	21	38
Mumps	0	0	2	1	10	0	2	16	31
AFP	0	0	1	1	2	0	0	0	4

Figure 7: Week wise reported cases of ILI, Typhoid & Dengue, KP



### Islamabad (ICT)

- From ICT, the most frequent reported diseases were ALRI <5 years (n=219), AD (Non-Cholera) (n=120), ILI (n=118), SARI (n=76), Typhoid (n=13), Malaria (n=08), Chickenpox (n=08), B. diarrhea (n=05) & Measles (n=02).
- During this week, a decrease in trend was observed for cases of AD (Non-Cholera) while ILI cases are increasing. Moreover, cases of Typhoid have shown a similar trend as compared to previous week i.e. week 46.

(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 47, in comparison with previous weeks, ICT

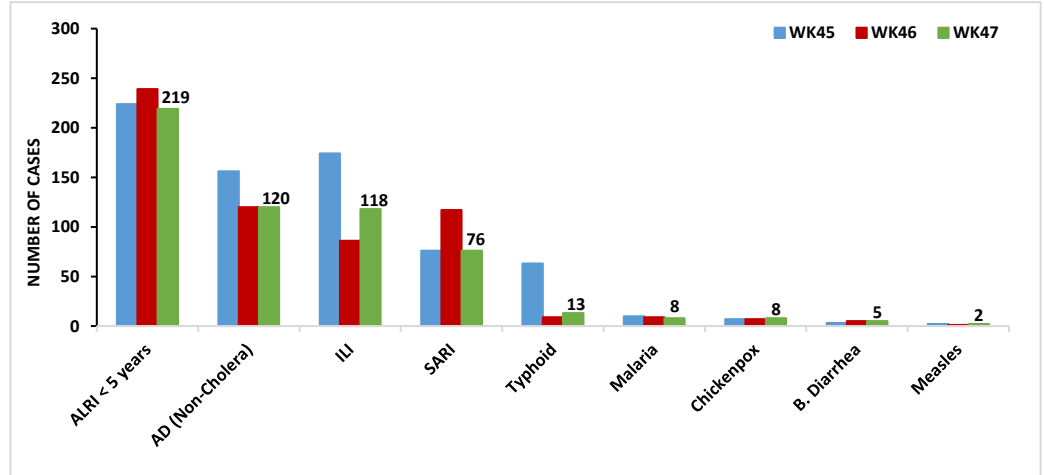


Figure 9: Week wise reported cases of ILI, AD (Non-Cholera) & Typhoid, ICT

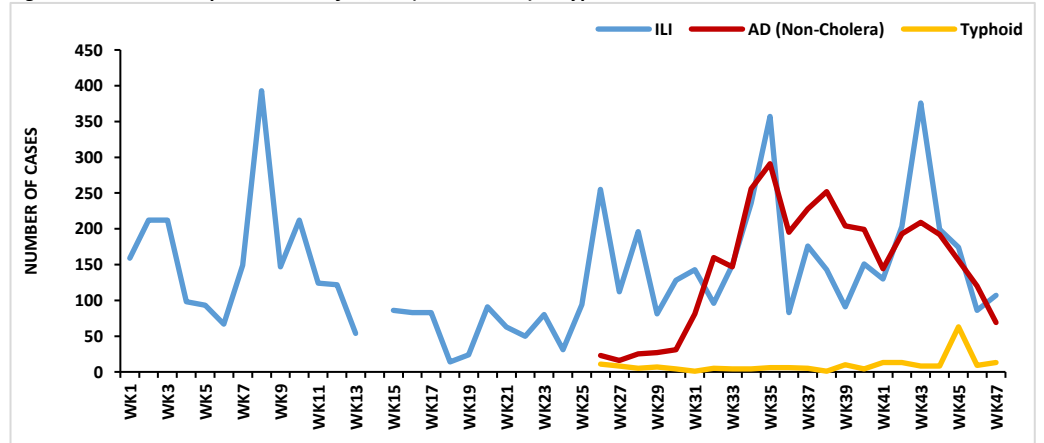


Figure 10: Most frequently reported cases during week 47, in comparison with previous weeks, GB

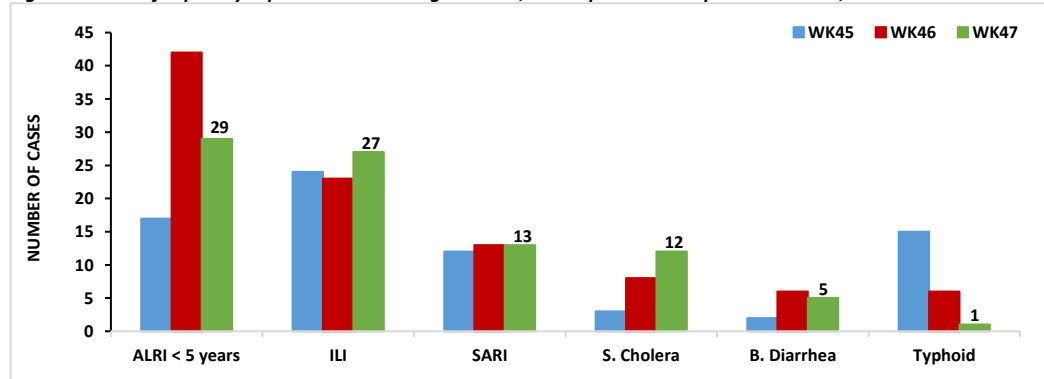
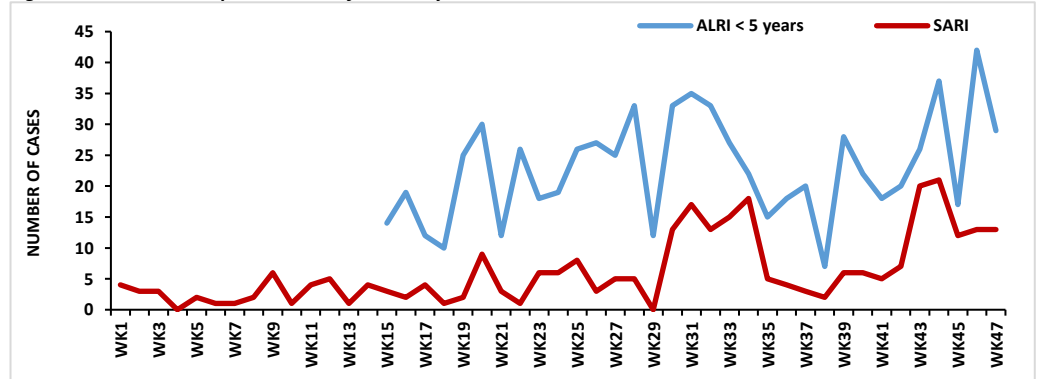


Figure 11: Week wise reported cases of ALRI <5 years & SARI, GB



### Gilgit Baltistan

- Gilgit-Baltistan reported cases of ALRI <5 years (n=29), ILI (n=27), SARI (n=13), suspected Cholera (n=12), B. diarrhea (n=05) & Typhoid (n=01) this week.
- Weekly trend for cases of ALRI <5 years depicted a downward trend whereas cases of SARI are following same trend as compared to previous week i.e. Week-46.

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

### IDSR Participating Districts

- This week 56% (18/32) of districts reported hundred percent (%) data. Districts are Abbottabad, Charsadda, Lakki Marwat, ICT & CDA (Islamabad), Gwadar, Kech, Lasbella, Pishin, Quetta, Hunza, Nagar, Karachi East, Ghotki, Naushahro Feroze, Larkana & Kamber.
- Mirpur, AJK uploaded data after timeline due to unavailability of internet. Therefore, their analysis is not included in the report.

**Table 5: IDSR reporting districts**

Province	Districts	Total Number of Reporting Sites (ARS/Total)	Total Number of Sites that Reported (%)
Khyber Pakhtunkhwa	Haripur	64/69	59(92%)
	Kohat	59/59	58(98%)
	Abbottabad	89/110	89(100%)
	Charsadda	52/61	52(100%)
	Lakki Marwat	48/48	48(100%)
	Swat	45/77	35 (78%)
	Malakand	78/78	38(49%)
	Swabi	55/63	36(66%)
Azad Jammu Kashmir	Mirpur	31/37	31(100%)
Islamabad Capital Territory	ICT	15/18	15(100%)
	CDA	5/12	5(100%)
Balochistan	Gwadar	20/24	20 (100%)
	Kech	40/78	40(100%)
	Khuzdar	20/136	19 (95%)
	Killa Abdullah	28/50	24 (86%)
	Lasbella	83/83	83 (100%)
	Pishin	17/118	17 (100%)
	Quetta	20/77	20 (100%)
	Sibi	39/42	16 (41%)
Gilgit Baltistan	Hunza	27/30	27(100%)
	Nagar	05/22	05(100%)
Sindh	Hyderabad	58/63	57 (98%)
	Karachi-East	14/14	14(100%)
	Karachi-Malir	37/43	33 (89%)
	Ghotki	30/58	30 (100%)
	Umerkot	30/118	05 (17%)
	Naushahro Feroze	30/52	30 (100%)
	Tharparkar	82/236	79 (96%)
	Shikarpur	31/32	02 (07%)
	Thatta	27/50	09 (33%)
	Larkana	24/149	24 (100%)
	Kamber	43/101	43 (100%)

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