



# Field Epidemiology and Disease Surveillance Division (FEDSD)

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

31<sup>st</sup> March 2022

#### Highlights of the Epi-Week-12 (21<sup>st</sup> March – 27<sup>th</sup> March 2022)

##### Cumulative Information

- During this week, most frequent reported cases were of Acute Diarrhea (Non Cholera), ILI, SARI, Malaria, ALRI <5 years, Typhoid, B. Diarrhea, Rabies/ Dog bite, AWD (S. Cholera), & VH (B, C & D).
- In comparison to previous week i.e. Week-11, all reported diseases depicted a downward or similar trend.
- Cases of VPDs reported from all over Pakistan, therefore, an immediate attention in terms of strengthening immunization activities is required.
- There is persistent reporting of AD (Non-Cholera) and AWD (S. Cholera) cases which need immediate verification to rule out presence of confirmed Cholera cases. Afterwards public health measures need to be implemented accordingly.
- Cases of Rabies/Dog bite, Dengue, Brucellosis and Leishmaniosis are reported continuously. Therefore, this need a strong One-Health approach for control of the cases.
- Cases of Gonorrhoea and Syphilis need immediate verification and implementation of public health measures.

Figure 1: Most frequently reported cases during week 12, in comparison with previous weeks, Pakistan

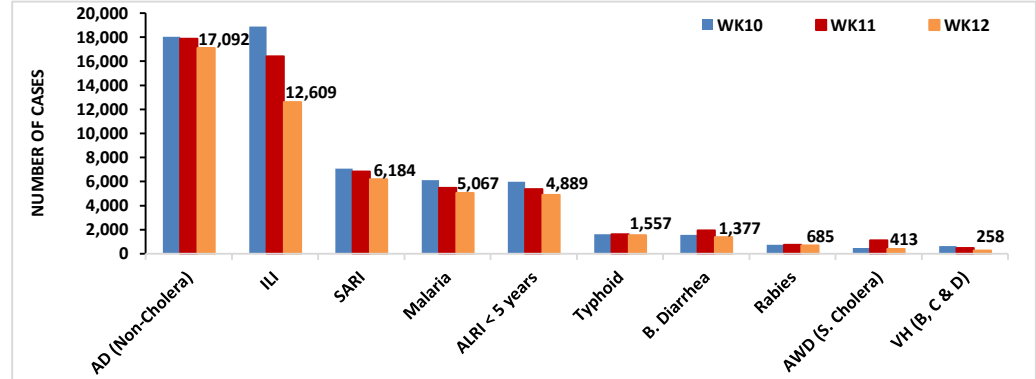


Table 1: Province/Area wise distribution of most frequently reported cases during week 12, Pakistan

Districts	AJK	Balochistan	GB	ICT	KP	Punjab	Sindh	Total
AD (Non-Cholera)	101	1,045	3	116	7,830	622	7,375	17,092
ILI	58	1,602	11	299	5,987	283	4,369	12,609
SARI	2	251	1	2	5,857	42	29	6,184
Malaria	0	485	0	0	1,781	232	2,569	5,067
ALRI < 5 years	33	393	13	131	1,981	417	1,921	4,889
Typhoid	0	188	1	0	751	256	361	1,557
B. Diarrhea	5	309	1	2	571	63	426	1,377
Rabies / Dog bite	0	59	0	0	510	1	115	685
AWD (S. Cholera)	0	21	1	1	226	164	0	413
VH (B, C & D)	0	17	0	0	40	14	187	258
Mumps	0	16	0	0	139	6	34	195
Measles	0	6	0	1	129	3	38	177
AVH (A & E)	0	0	0	0	100	15	43	158
Chickenpox/ Varicella	1	11	0	0	84	4	56	156
CL	0	71	0	0	67	0	0	138
Pertussis	0	3	0	0	51	8	0	62
Gonorrhoea	0	27	0	0	10	8	14	59
AFP	0	0	0	0	44	5	5	54
Dengue	0	0	0	0	1	0	51	52
Brucellosis	0	0	0	0	48	0	0	48
Meningitis	0	10	0	0	9	2	27	48

##### 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.**
- Leishmaniosis, 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 Gonorrhoea and Syphilis, 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=7,375), ILI (n=4,369), Malaria (n=2,569), ALRI <5 Years (n=1,921), B. diarrhea (n=426), Typhoid (n=361), VH (B, C & D) (n=187), Rabies/ Dog bite (n=115), Chickenpox (n=56) & Dengue (n=51).
- Ghotki reported maximum cases of AD (Non Cholera), ALRI <5 years & Malaria.
- Hyderabad reported maximum cases of AD (Non Cholera), ILI, ALRI <5 years & B. diarrhea.
- Kamber reported maximum cases of AD (Non Cholera), Malaria & ALRI <5 years.
- Karachi East reported maximum cases of AD (Non Cholera).
- Karachi Malir reported maximum cases of AD (Non Cholera), and ILI.
- Larkana reported maximum cases of Malaria & AD (Non Cholera).
- Naushahro Feroze reported maximum cases of ILI, Malaria, AD (Non Cholera), and ALRI <5 years.
- Shikarpur reported AD (Non Cholera) & Malaria cases at maximum.
- Tharparkar reported maximum cases of AD (Non Cholera), ILI, Malaria & ALRI <5 years.
- Thatta reported maximum cases of AD (Non Cholera), Malaria & ALRI <5 years.
- In comparison with previous week cases of AD (Non Cholera), & Dengue showed increased while Malaria showed similar trend.

Figure 2: Most frequently reported cases during week 12, in comparison with previous weeks, Sindh

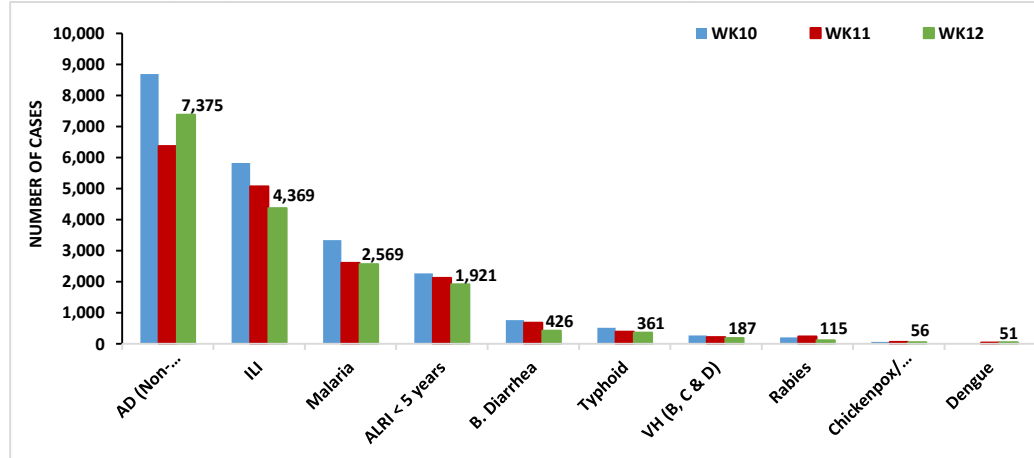
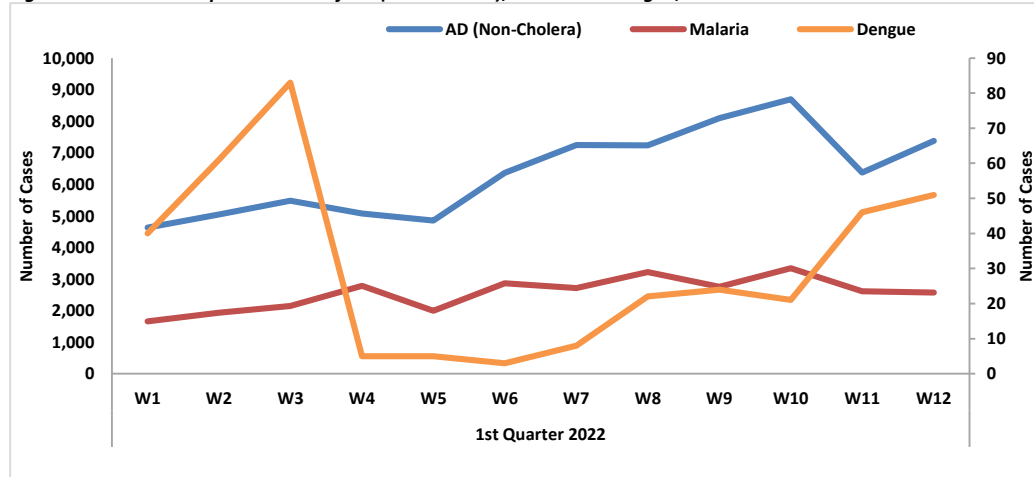


Table 2: District wise distribution of most frequently reported cases during week 12, Sindh

Diseases	Ghotki	Hyderabad	Kamber	Kar. East	Kar. Malir	Larkana	N. Feroze	Shikarpur	Tharparkar	Thatta
AD (Non-Cholera)	386	2,550	693	153	862	213	295	172	1,419	381
ILI	0	1,950	0	18	642	0	614	0	1,068	77
Malaria	110	49	393	17	36	238	354	102	614	348
ALRI < 5 years	206	146	228	15	301	1	98	30	481	256
B. Diarrhea	33	131	29	0	70	29	0	34	70	12
Typhoid	20	23	64	1	46	2	70	0	65	31
VH (B, C & D)	12	91	18	1	7	5	14	0	7	7
Rabies / Dog bite	20	2	0	0	23	0	2	55	13	0
Chickenpox/ Varicella	0	24	3	5	8	0	0	4	9	3
Dengue	0	0	0	10	3	0	0	0	38	0
AVH (A & E)	0	12	0	1	2	0	7	0	21	0
Measles	1	1	1	3	4	0	0	0	28	0
Mumps	1	1	0	3	20	0	1	0	3	0
SARI	0	5	4	0	2	0	8	1	9	0
Meningitis	0	0	0	0	0	0	0	0	27	0
Gonorrhoea	0	0	0	0	6	0	3	0	0	5
Syphilis	0	0	5	0	0	0	0	0	0	0
AFP	0	0	1	0	0	0	1	0	3	0
Rubella (CRS)	0	0	3	0	0	0	0	0	0	0
HIV/AIDS	0	1	1	0	0	0	0	0	0	0

Figure 3: Week wise reported cases of AD (Non Cholera), Malaria & Dengue, Sindh



### Balochistan

- From Balochistan overall ILI (n=1,602), AD (Non Cholera) (n=1,045), Malaria (n=485), ALRI <5 years (n=393), B. diarrhea (n=309), SARI (n=251), Typhoid (n=188), CL (n=71), Rabies/Dog bite (n=59) & Gonorrhoea (n=27).
- District Gwadar reported maximum cases of ILI.
- District Kech reported cases of ILI, AD (Non Cholera) & ALRI <5 years at maximum.
- District Khuzdar reported maximum cases of AD (Non Cholera).
- District Lasbella reported maximum cases for AD (Non-Cholera), Malaria & ALRI <5 years.
- District Naseerabad reported cases of AD (Non Cholera) at maximum.
- District Pishin reported cases for ILI at maximum.
- From district Quetta, cases of ILI & AD (Non Cholera) were reported at maximum.
- District Sibi reported cases of ILI at maximum.
- District Zohb reported maximum cases of SARI, ALRI <5 years & ILI.
- Cases of Anthrax need urgent attention and response.
- Cases of VPDs are reported regularly, and therefore, needs strengthening of routine immunization system.
- Cases of AD (Non Cholera), Malaria & ALRI <5 years had shown decreased trend as compared to previous week i.e. Week-11.

Figure 4: Most frequently reported cases during week 12, in comparison with previous weeks, Balochistan

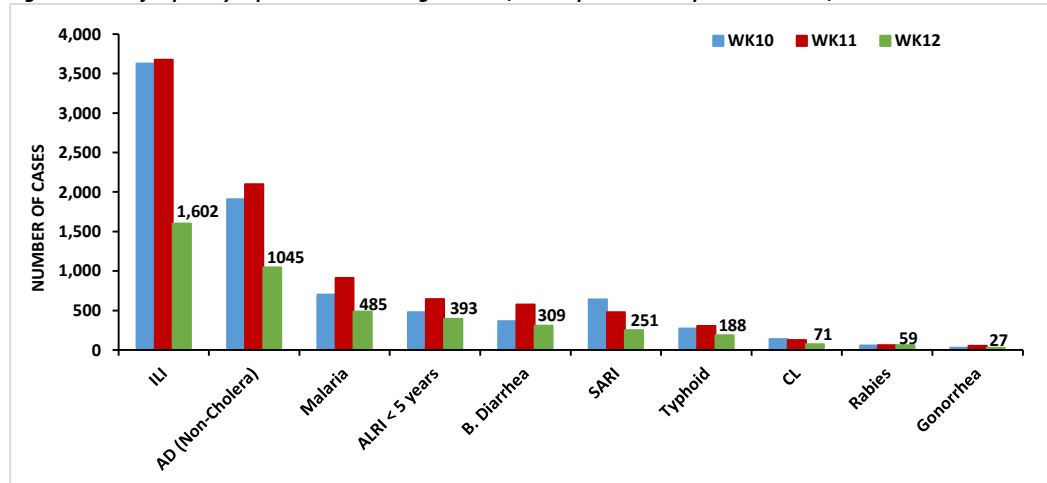
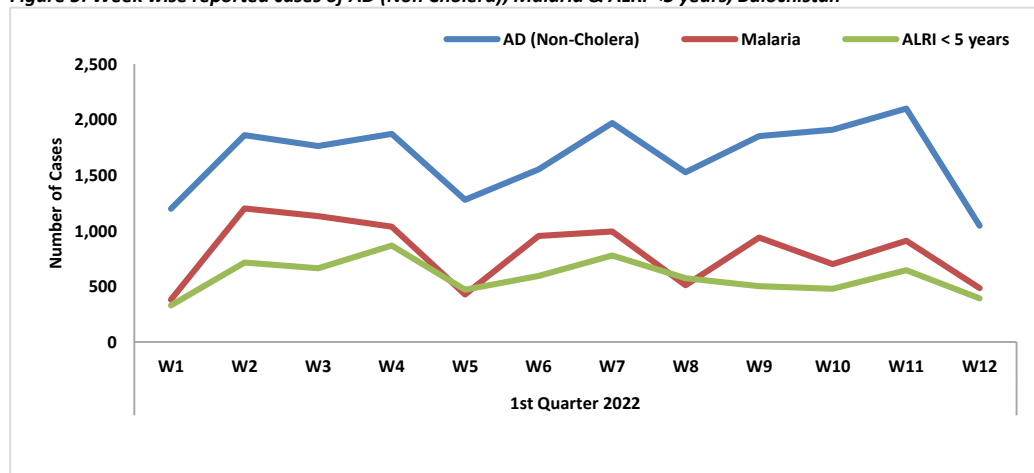


Table 3: District wise distribution of most frequently reported cases during week 12, Balochistan

Diseases	Gwadar	Kech (Turbat)	Khuzdar	Lasbella	Naseerabad	Pishin	Quetta	Sibi	Zohb
ILI	124	538	67	54	75	152	399	98	95
AD (Non-Cholera)	34	154	78	287	92	58	199	84	59
Malaria	2	58	59	172	71	10	9	36	68
ALRI < 5 years	NR	114	3	93	51	11	3	13	105
B. Diarrhea	1	47	44	42	4	29	68	28	46
SARI	NR	4	2	43	6	0	41	8	147
Typhoid	NR	1	40	23	43	13	31	17	20
CL	NR	0	7	29	6	19	8	2	0
Rabies / Dog bite	NR	0	15	37	5	1	0	1	0
Gonorrhoea	NR	0	18	0	0	5	0	4	0
AWD (S. Cholera)	NR	0	1	8	4	0	0	8	0
VH (B, C & D)	NR	0	5	3	6	0	3	0	0
Mumps	NR	0	2	2	4	3	0	3	2
Chickenpox/ Varicella	NR	0	2	8	0	0	0	0	1
Meningitis	NR	0	0	0	10	0	0	0	0
Measles	NR	0	3	3	0	0	0	0	0
Pertussis	NR	0	0	1	2	0	0	0	0
Anthrax	NR	0	0	0	1	1	0	0	0

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



### Khyber Pakhtunkhwa (KP)

- KP reported cases of AD (Non Cholera) (n=7,830), ILI (n=5,987), SARI (n=5,857), ALRI <5 years (n=1,981), Malaria (n=1,781), Typhoid (n=751), B. Diarrhea (n=571), Rabies/Dog bite (n=510), AWD (S. Cholera) (n=226) & Mumps (n=139) at maximum.
- Khyber district reported ILI & AD (Non Cholera) at maximum.
- District Abbottabad reported maximum cases of AD (Non-Cholera).
- District Charsadda reported maximum cases of AD (Non-Cholera), Malaria, ILI & SARI.
- District Kohat reported maximum cases of ILI, AD (Non Cholera) & Malaria.
- District Lakki Marwat and Malakand each reported maximum cases of AD (Non-Cholera), Malaria & ALRI <5 years.
- District Mansehra reported maximum cases of AD (Non Cholera), ILI, SARI, & Typhoid.
- District Mardan reported maximum cases of AD (Non Cholera), ILI, SARI, ALRI <5 years, Malaria, & Typhoid.
- District Swabi reported maximum cases of SARI, AD (Non Cholera), & ILI.
- District Swat reported maximum cases of SARI, ILI AD (Non Cholera), & Typhoid.
- Cases of AFP, Anthrax, Brucellosis and Leprosy have been reported which need immediate verification and response accordingly.
- In comparison with previous week i.e. week 11 cases of AD (Non Cholera) shown increased trend, while SARI & ALRI <5 years had shown decreased trend.

Figure 6: Most frequently reported cases during week 12, in comparison with previous weeks, KP

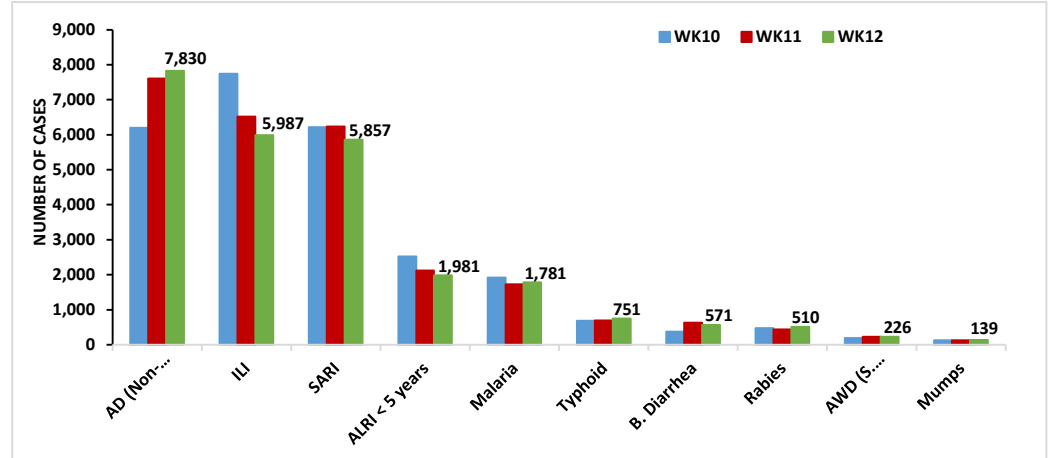
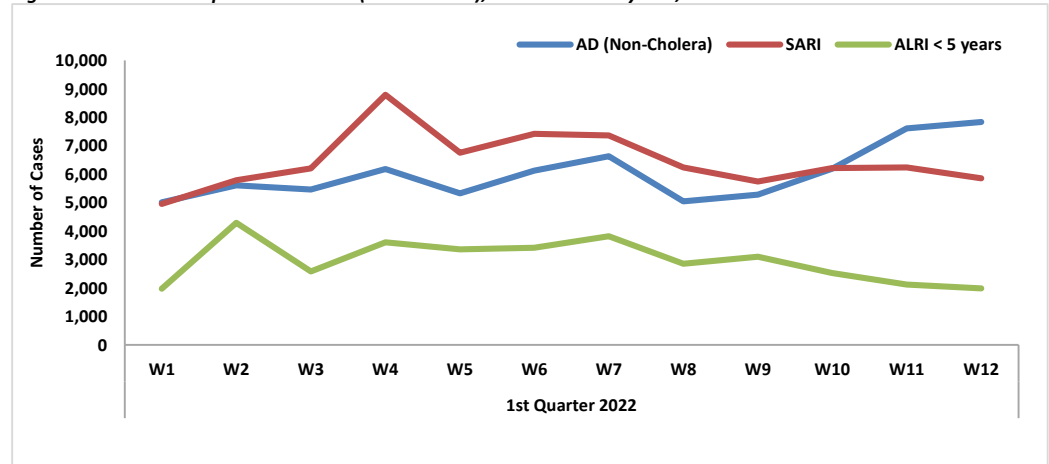


Table 4: District wise distribution of most frequently reported cases during week 12, KP

Diseases	Abbottabad	Charsadda	Khyber	Kohat	Lakki Marwat	Malakand	Mansehra	Mardan	Swabi	Swat
AD (Non-Cholera)	569	724	90	298	1,030	679	707	1,091	829	1,813
ILI	2	199	219	462	12	217	767	1,407	624	2,078
SARI	32	161	24	86	29	84	569	433	1,698	2,741
ALRI < 5 years	10	73	14	29	221	511	93	409	270	351
Malaria	1	713	9	143	465	70	1	330	25	24
Typhoid	15	87	48	23	31	30	141	147	73	156
B. Diarrhea	2	77	20	47	31	47	50	118	54	125
Rabies / Dog bite	5	0	44	23	50	0	167	24	131	66
AWD (S. Cholera)	0	6	1	20	0	2	79	48	46	24
Mumps	0	0	10	13	6	36	2	38	9	25
Measles	0	0	7	0	6	5	4	95	8	4
AVH (A & E)	0	0	9	1	0	40	5	0	11	34
Chickenpox/ Varicella	0	0	11	3	3	22	1	30	11	3
CL	0	0	59	2	0	3	0	3	0	0
Pertussis	0	0	8	2	0	0	7	15	7	12
Brucellosis	0	0	0	0	0	0	3	45	0	0
AFP	0	1	0	0	1	0	1	36	3	2
VH (B, C & D)	0	0	7	0	0	0	4	1	18	10
Meningitis	0	0	1	0	0	0	0	7	1	0
Leprosy	0	0	0	0	0	0	4	0	0	0
Anthrax	0	0	0	0	0	0	1	0	0	0

Figure 7: Week wise reported cases AD (Non Cholera), SARI & ALRI <5 years, KP



**Islamabad (ICT)**

- From ICT, the most frequent reported diseases were ILI (n=299), ALRI <5 years (n=131), AD (Non-Cholera) (n=116), B. diarrhea (n=02), SARI (n=02), AWD (S. Cholera) (n=01) Measles (n=01).
- Cases of AD (Non Cholera), & ALRI <5 years had shown similar trend as compared to previous week.
- Cases of diarrhea need epidemiological investigations and implementation of public health measures.
- There is need to spread community awareness for water, sanitation and hygiene (WASH) practices.

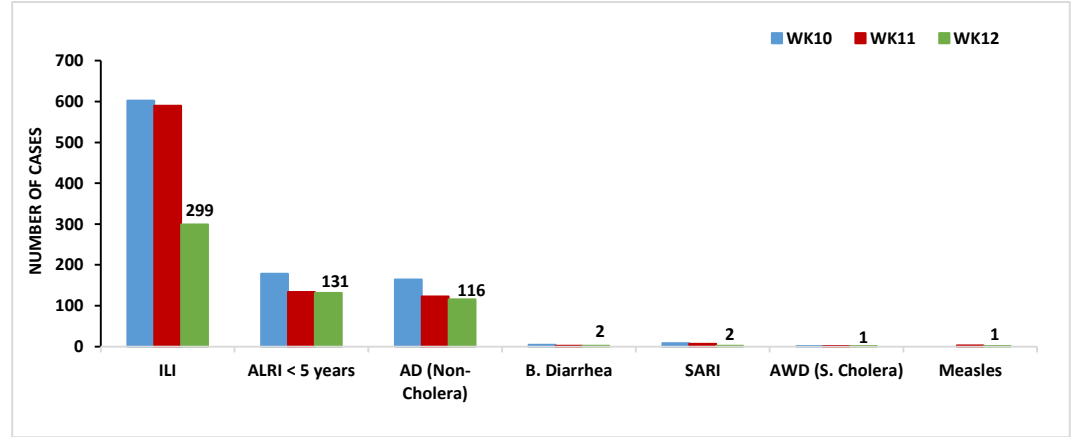
(Note: ICT started reporting data on new format; therefore, data before week-26 is not shown in trend graph).

**Gilgit Baltistan**

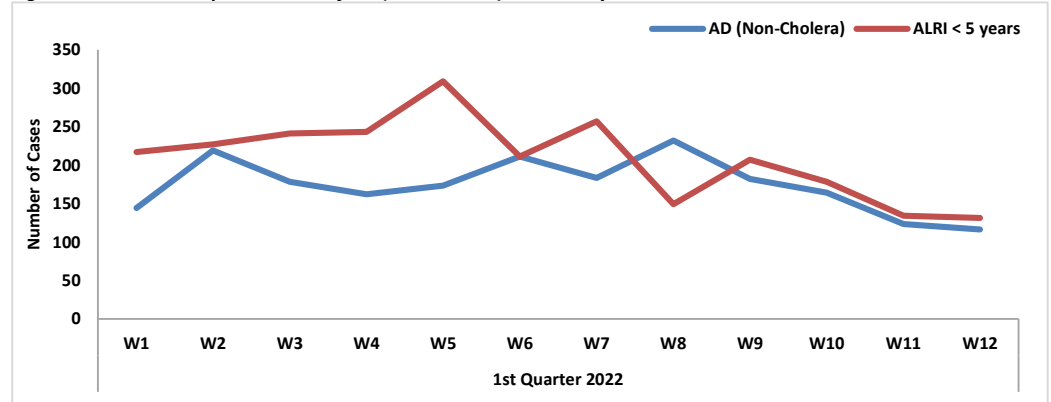
- Gilgit-Baltistan reported cases of ALRI <5 years (n=13), ILI (n=11), AD (Non Cholera) (n=03), AWD (S.Cholera) (n=01), B. diarrhea (n=1), Typhoid (n=1) & SARI (n=01) this week.
- Cases of ALRI <5 years had shown increased trend as compared to previous week.
- Cases of diarrhea need epidemiological investigations and implementation of public health measures.
- There is need to spread community awareness for water, sanitation and hygiene (WASH) practices.

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

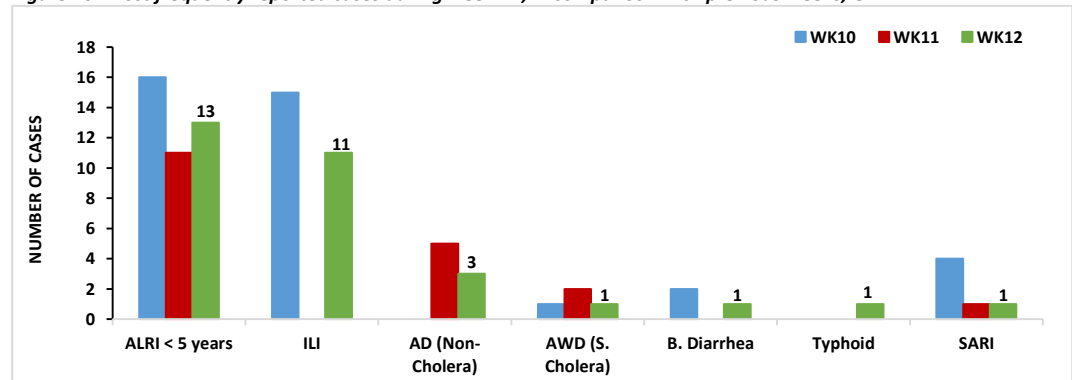
**Figure 8: Most frequently reported cases during week 12, in comparison with previous weeks, ICT**



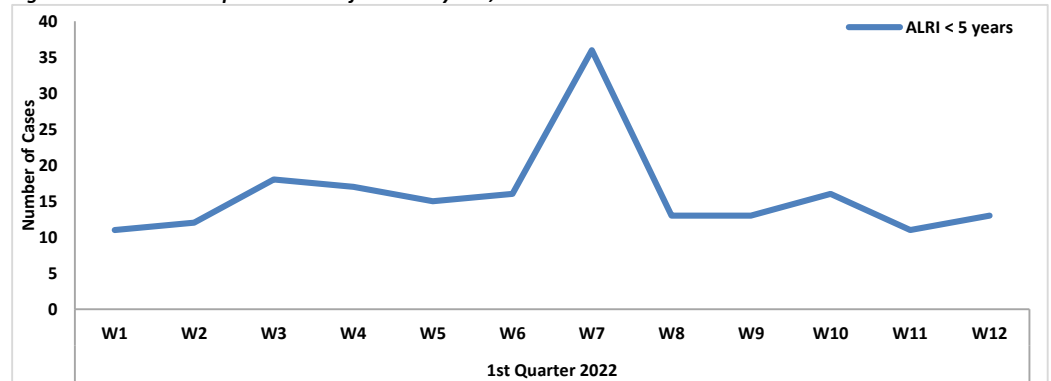
**Figure 9: Week wise reported cases of AD (Non Cholera) & ALRI <5 years, ICT**



**Figure 10: Most frequently reported cases during week 12, in comparison with previous weeks, GB**



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



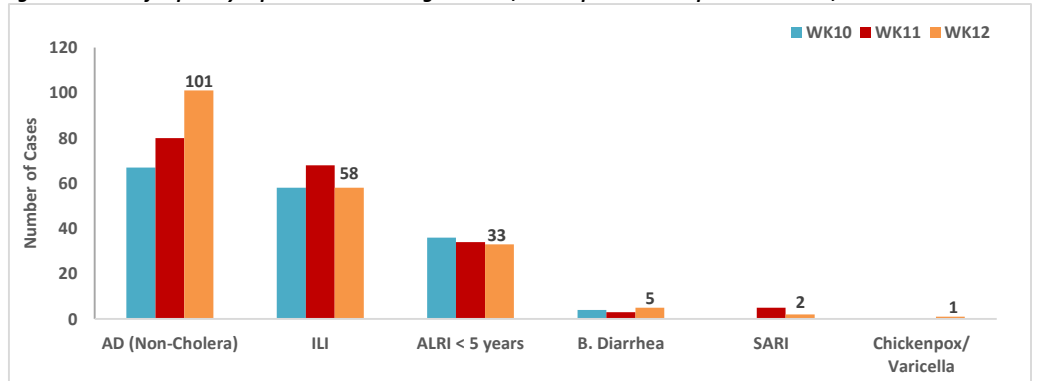
**AJK**

- From District Mirpur most frequently reported cases are of AD (Non Cholera) (n=101), ILI (n=58), ALRI <5 years (n=33), B. diarrhea (n=05), SARI (n=02), and Chickenpox (n=01) this week.
- Cases of AD (Non-Cholera) had shown increased, while ALRI <5 years shown decreased trend as compared to previous week.
- There is need to spread community awareness for water, sanitation and hygiene (WASH) practices.
- There is need to strengthen routine immunization to prevent VPDs.

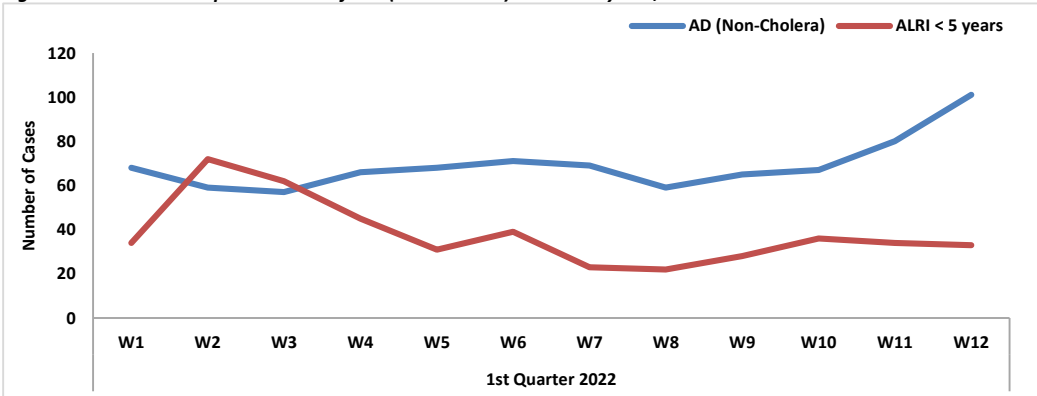
**Punjab**

- This week Punjab reported cases of AD (Non Cholera), ALRI <5 years (n=471), ILI (n=283), Malaria (n=232), Typhoid (n=256), AWD (S. Cholera) (n=164), B. diarrhea (n=63), SARI (n=42), AVH (A & E) (n=15) & VH (B, C & D) (n=15), at maximum.
- Cases of AD (Non-Cholera) has shown sharp decline, while cases of ALRI <5 years shown increased and Malaria shown similar trend as compared to previous week.
- There is need to spread community awareness for water, sanitation and hygiene (WASH) practices.

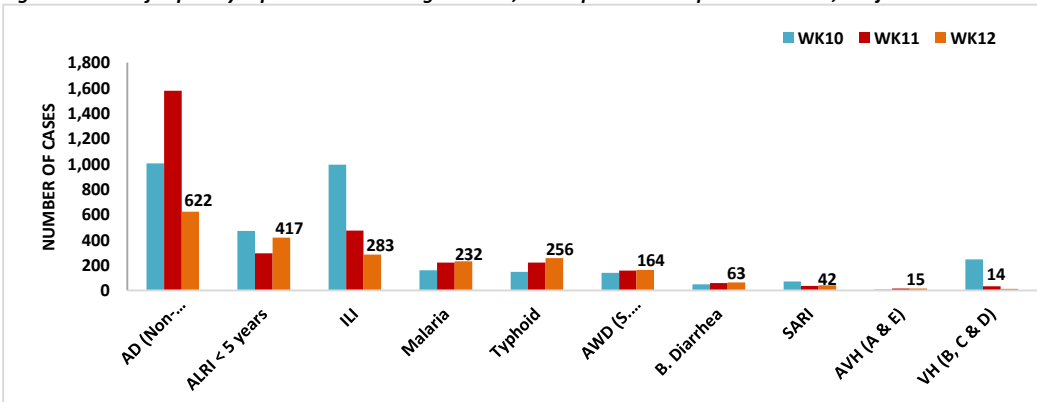
**Figure 12: Most frequently reported cases during week 12, in comparison with previous weeks, AJK**



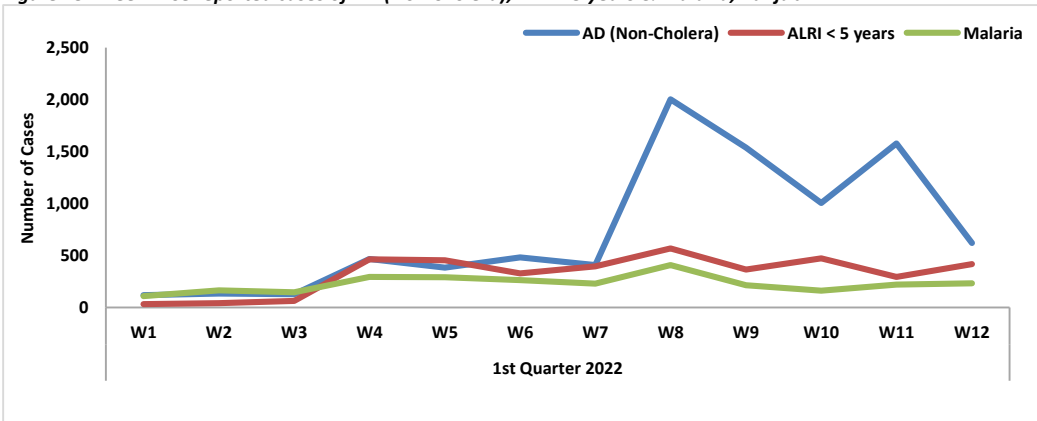
**Figure 13: Week wise reported cases of AD (Non Cholera) & ALRI <5 years, AJK**



**Figure 14: Most frequently reported cases during week 12, in comparison with previous weeks, Punjab**



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



### IDSR Participating Districts

- This week 7% (03/41) of the districts which include Kohat, Lakki Marwat & Hunza reported hundred percent (%) data.
- Districts Haripur, Jaffarabad, Killa Abdullah & Rajanpur did not report IDSR data this week.
- District Umerkot reported data after the set timeline.

**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	07 (09%)
	Swabi	63/63	15(24%)
	Khyber	63/63	09(14%)
	Mardan	65/65	08 (12%)
	Mansehra	114/114	07(06%)
	Azad Jammu Kashmir	Mirpur	37/37
Islamabad Capital Territory	ICT	18/18	15 (83%)
	CDA	9/12	8 (89%)
Balochistan	Gwadar	24/24	05 (21%)
	Kech	44/78	41(93%)
	Khuzdar	20/136	19 (95%)
	Killa Abdullah	30/50	0
	Lasbella	85/85	83(98%)
	Pishin	23/118	14 (61%)
	Quetta	22/77	16 (73%)
	Sibi	42/42	38 (91%)
	Zhob	37/37	24 (65%)
	Jaffarabad	47/47	0
	Naserabad	45/45	36 (80%)
Gilgit Baltistan	Hunza	31/31	31 (100%)
	Nagar	05/22	04(80%)
Sindh	Hyderabad	63/63	17 (27%)
	Karachi-East	14/14	13 (99%)
	Karachi-Malir	43/43	32(74%)
	Ghotki	58/58	40(69%)
	Umerkot	30/118	12(40%)
	Naushahro Feroze	52/52	21 (40%)
	Tharparkar	93/236	92 (99%)
	Shikarpur	32/32	17 (53%)
	Thatta	50/50	29 (58%)
	Larkana	149/149	13 09%
	Kamber	101/101	63 (57%)
Punjab	Bahawalpur	91/91	32 (35%)
	Muzaffargarh	117/117	42(36%)
	Rajanpur	55/55	0

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