



# Field Epidemiology and Disease Surveillance Division (FEDSD)

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

27<sup>th</sup> January 2022

#### Highlights of the Epi-Week-3 (17<sup>th</sup> – 23<sup>rd</sup> January 2022)

##### Cumulative Information

- During this week, maximum cases reported were of ILI, Acute Diarrhea (Non Cholera), SARI, ALRI <5 years, Malaria, B. Diarrhea, Typhoid, Rabies/Dog bite, VH (B, C & D) & AWD (S. Cholera).
- In comparison with previous week i.e. Week-02, cases of SARI and Typhoid increased while remaining diseases depicted a similar or downward trend.
- Cases of VPDs (Pertussis, Measles, Chickenpox, Meningitis & Mumps) reported from KP, Balochistan, ICT and Sindh need immediate attention of Immunization program to strengthen control the spread of VPDs.
- Cases of VH (B, C & D) and AVH (A&E) are regularly reported from Sindh & KP province need urgent attention to confirm and to implement control measures accordingly.
- Cases of Rabies/Dog bite are regularly reported. An immediate attention is required to prevent this fatal disease. Furthermore, a multisector One-Health approach should be adopted to tackle this issue.
- Bloody diarrhea, suspected Cholera and Typhoid cases are also reported from KP, Sindh and Balochistan. Public health measures need to be implemented on priority basis for control of these cases.
- Reporting of HIV/AIDS cases from Sindh needs immediate investigation and public health response.
- Cases of Brucellosis, Anthrax and AFP need immediate attention and response accordingly.

Figure 1: Most frequently reported cases during week 3, in comparison with previous weeks, Pakistan

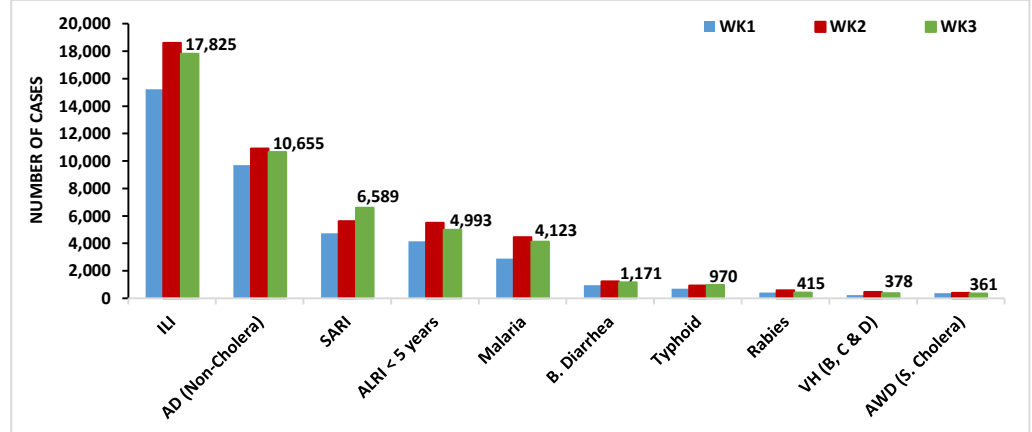


Table 1: Province/Area wise distribution of most frequently reported cases during week 3, Pakistan

Diseases	AJK	Balochistan	GB	ICT	KP	Punjab	Sindh	Total
ILI	72	3,331	34	415	4,792	5	9,176	17,825
AD (Non-Cholera)	57	1,521	13	159	3,774	13	5,118	10,655
SARI	7	780	11	36	5,654	4	97	6,589
ALRI < 5 years	62	601	18	241	1,755	0	2,316	4,993
Malaria	5	927	0	0	1,140	0	2,051	4,123
B. Diarrhea	4	358	3	6	256	0	544	1,171
Typhoid	0	316	8	0	370	0	276	970
Rabies / Dog bite	0	39	0	0	243	0	133	415
VH (B, C & D)	0	64	0	0	122	0	192	378
AWD (S. Cholera)	0	107	8	2	110	0	134	361
CL	0	101	0	91	152	0	2	346
Gonorrhoea	0	75	0	0	4	0	28	107
AVH (A & E)	1	2	0	0	70	0	21	94
Measles	0	44	0	2	33	0	13	92
Dengue	0	2	0	0	5	0	83	90
Chickenpox/ Varicella	0	10	0	3	51	0	19	83
Pertussis	0	56	0	0	11	0	2	69
Mumps	0	17	0	10	30	0	10	67
Brucellosis	0	24	0	0	1	0	0	25
HIV/AIDS	0	0	0	0	1	0	21	22
Syphilis	0	0	0	0	16	0	5	21
Meningitis	0	1	0	0	9	0	6	16
Leprosy	0	0	1	0	0	0	2	3

##### 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.**
- 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. These need investigation, and confirmation. Afterwards public health response actions need to be implemented in the affected areas.**
- Burden of zoonotic diseases is increasing across Pakistan and dog bite is one of those diseases. Therefore, there is need to conduct community awareness sessions regularly, and also prepare and 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 prevention & control of diseases.

## Sindh

- Sindh reported maximum cases of ILI (n=9,176), AD (Non Cholera) (n=5,116), ALRI <5 Years (n=2,316), Malaria (n=2,051), B. diarrhea (n=544), Typhoid (n=276), VH (B, C & D) (n=192), AWD (S. Cholera) (n=134), Rabies/ Dog bite (n=133) & SARI (n=97).
- District Ghotki reported the maximum cases of ILI, ALRI <5 years & AD (Non Cholera).
- District Hyderabad reported maximum cases of ILI, AD (Non Cholera) & ALRI <5 years.
- From Kamber, AD (Non Cholera), Malaria & ALRI <5 years.
- 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.
- District Naushahro Feroze reported ILI, AD (Non Cholera) & Malaria.
- District Shikarpur reported AD (Non Cholera) & Malaria cases at maximum.
- From Tharparkar, maximum cases of ILI, AD (Non-Cholera), Malaria, ALRI <5 years, Malaria & B. diarrhea were reported.
- From Thatta, cases of AD (Non Cholera) & Malaria were reported at maximum.
- District Umerkot reported cases of AD (Non Cholera), Malaria & ALRI <5 years.
- 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 & ALRI <5 years increased while cases of Typhoid declined as compared to previous week.

(Note: NR= Not Reported)

Figure 2: Most frequently reported cases during week 3, in comparison with previous weeks, Sindh

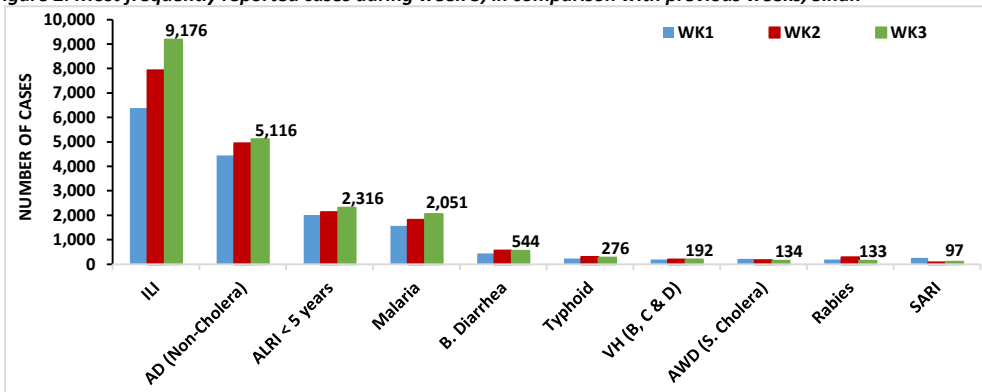
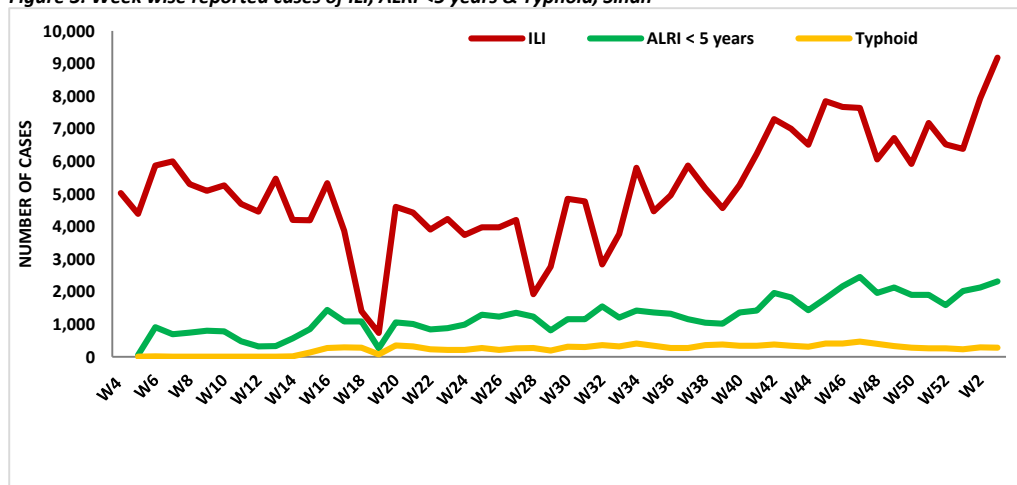


Table 2: District wise distribution of most frequently reported cases during week 3, Sindh

Districts	Ghotki	Hyderabad	Kamber	Kar-East	Kar-Malir	Larkana	N. Feroze	Shikarpur	Tharparkar	Thatta	Umerkot
ILI	540	4,833	0	17	693	0	911	0	2,101	7	74
AD (Non-Cholera)	194	1,704	273	169	720	327	274	187	854	172	244
ALRI <5 years	317	275	133	4	361	149	98	88	634	90	167
Malaria	56	47	235	28	53	402	251	137	489	129	224
B. Diarrhea	78	85	68	2	66	33	26	24	103	34	25
Typhoid	22	11	30	0	51	26	54	0	57	11	14
VH (B, C & D)	36	36	16	0	8	13	5	0	18	16	44
AWD (S. Cholera)	28	34	0	0	52	2	0	0	0	17	1
Rabies / Dog bite	58	2	0	0	28	5	4	29	7	0	0
SARI	10	24	0	0	37	3	2	0	19	0	2
Dengue	0	NR	0	3	3	0	0	0	77	0	0
Gonorrhoea	0	1	0	0	10	2	3	0	8	4	0
AVH (A & E)	5	5	0	0	0	0	2	0	9	0	0
HIV/AIDS	0	2	0	0	0	19	0	0	0	0	0
Chickenpox/ Varicella	1	2	1	4	4	0	0	0	0	2	5
Measles	1	NR	0	3	1	0	0	0	8	0	0
Mumps	0	1	0	0	7	0	0	0	0	1	1
Meningitis	1	NR	0	0	0	0	0	0	5	0	0
Chikungunya	0	0	2	0	0	0	0	0	0	0	0
Leprosy	0	NR	0	0	0	2	0	0	0	0	0
Pertussis	0	NR	0	0	0	0	0	0	0	1	1

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



### Balochistan

- From Balochistan overall ILI (n=3,331), AD (Non Cholera) (n=1,521), Malaria (n=927), SARI (n=780), ALRI <5 years (n=601), B. diarrhea (n=358), Typhoid (n=316), S. Cholera (n=107), CL (n=101), & Gonorrhoea (n=75) remained at maximum.
- District Jaffarabad reported maximum cases of Malaria, AD (Non Cholera), ALRI <5 years, SARI, ILI, Typhoid & B. diarrhea.
- District Kech reported cases of ILI & AD (Non Cholera) at maximum.
- District Khuzdar reported maximum cases of ILI.
- District Killa Abdullah reported maximum cases of ILI & AD (Non Cholera).
- District Lasbella reported maximum cases for AD (Non-Cholera), Malaria & ALRI <5 years.
- District Naseerabad started reporting data in DHIS-2.
- District Pishin reported cases for ILI & ALRI <5 years 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 Brucellosis, Anthrax & AFP have been reported which need immediate verification and response accordingly.
- Persistent reporting of Gonorrhoea cases needs investigation for differential diagnosis, proper follow up & treatment.
- Cases of VPDs have been regularly reported, and therefore, needs strengthening of routine immunization system.
- In comparison with last week, cases of ILI, ALRI <5 years and SARI declined.

Figure 4: Most frequently reported cases during week 3, in comparison with previous weeks, Balochistan

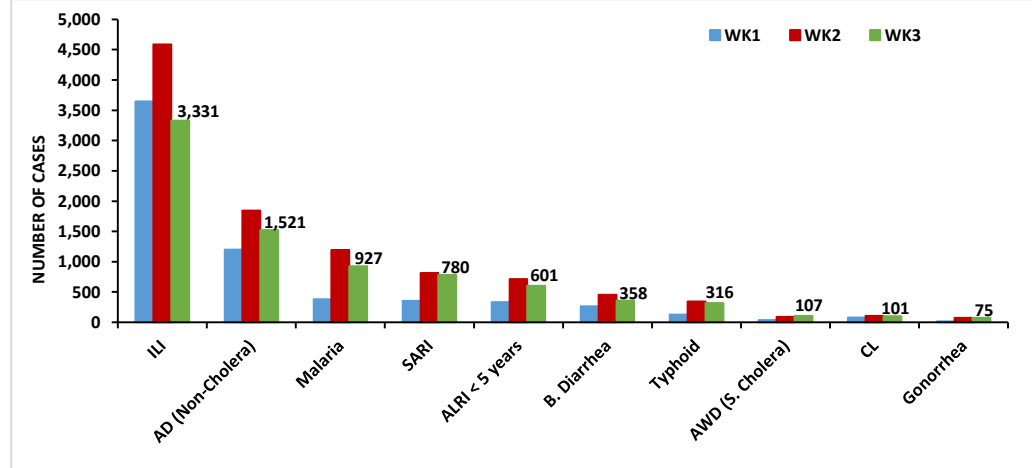
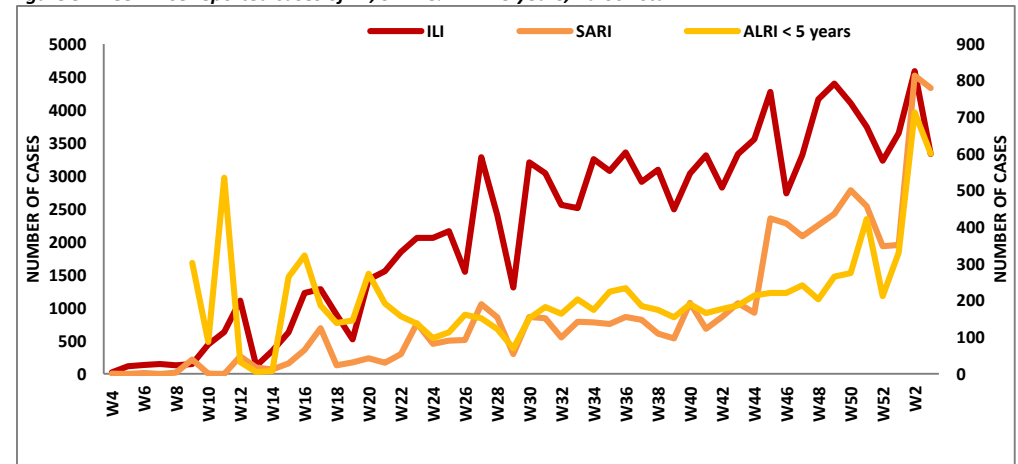


Table 3: District wise distribution of most frequently reported cases during week 3, Balochistan

Districts	Jaffar-abad	Kech	Khuzdar	Killa Abdullah	Lasbella	Naseer-abad	Pishin	Quetta	Sibi	Zhob
ILI	202	1,223	113	198	74	0	372	638	252	259
AD (Non-Cholera)	492	256	59	192	202	7	42	137	96	38
Malaria	639	26	21	9	151	9	2	3	32	35
SARI	212	29	33	NR	78	2	4	0	11	411
ALRI < 5 years	246	46	22	NR	151	3	103	0	23	7
B. Diarrhea	110	34	53	NR	36	2	28	27	35	33
Typhoid	176	11	16	5	30	6	24	23	15	10
AWD (S. Cholera)	4	1	1	NR	62	0	7	16	11	5
CL	11	0	1	29	35	3	7	6	8	1
Gonorrhoea	56	0	9	NR	0	0	9	0	1	0
VH (B, C & D)	59	0	4	NR	1	0	0	0	0	0
Pertussis	6	0	2	NR	0	1	46	0	1	0
Measles	25	0	3	4	4	4	0	2	2	0
Rabies / Dog bite	16	0	0	2	9	2	8	0	2	0
Brucellosis	24	0	0	NR	0	0	0	0	0	0
Mumps	9	2	3	NR	1	0	1	0	1	0
Chickenpox / Varicella	0	0	0	NR	2	0	0	2	5	1
Anthrax	1	0	0	NR	0	0	1	0	0	0
AFP	1	0	0	NR	0	0	0	0	0	0

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



### Khyber Pakhtunkhwa (KP)

- KP reported cases of SARI (n=5,654), ILI (n=4,792), AD (Non Cholera) (n=3,774), ALRI <5 years (n=1,755), Malaria (n=1,140), Typhoid (n=370), B. diarrhoea (n=256), Rabies/Dog bite (n=243), CL (n=152) & VH (B, C & D) (n=122) at maximum.
- District Abbottabad reported maximum cases of AD (Non-Cholera).
- District Charsadda reported maximum cases of Malaria, AD (Non-Cholera), ILI & Typhoid.
- District Haripur reported maximum cases of ILI, AD (Non-Cholera) & ALRI <5 years.
- District Kohat reported maximum cases of ILI, AD (Non Cholera), SARI & ALRI <5 years.
- District Lakki Marwat reported maximum cases of ALRI <5 years, Malaria & AD (Non-Cholera).
- District Malakand reported maximum cases of ILI & ALRI <5 years.
- District Swabi reported maximum cases of SARI, ILI, ALRI <5 years, AD (Non Cholera) & Rabies/Dog Bite.
- District Swat reported maximum cases of SARI, ILI, AD (Non Cholera), ALRI <5 years, Typhoid, B. diarrhoea & CL.
- Cases of Measles, Mumps, Pertussis, Meningitis & Chickenpox have been reported, which need immediate public health actions to reduce burden of VPDs.
- Cases of AFP, HIV/AIDS & Brucellosis need verification and further workup accordingly.
- Weekly cases of ILI & ALRI <5 years cases depicted a decrease in trend while cases of SARI have shown an abrupt increase as compared to the last week i.e. week 02.

Figure 6: Most frequently reported cases during week 3, in comparison with previous weeks, KP

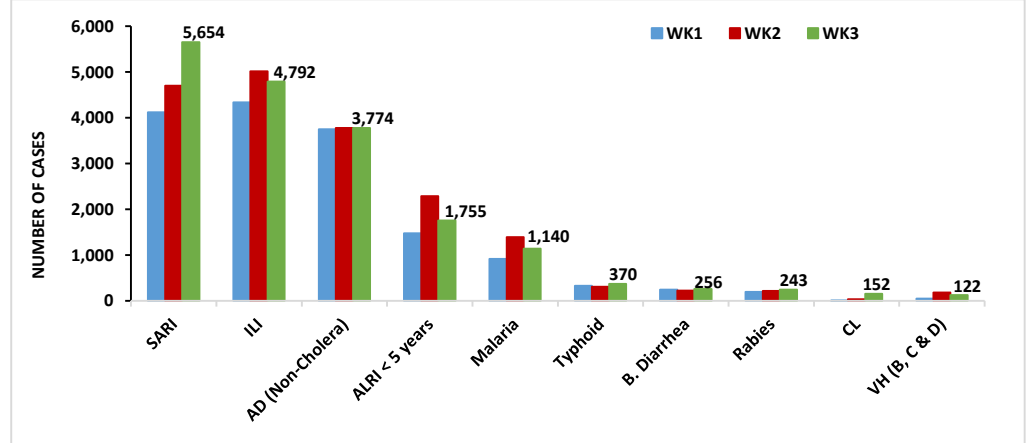
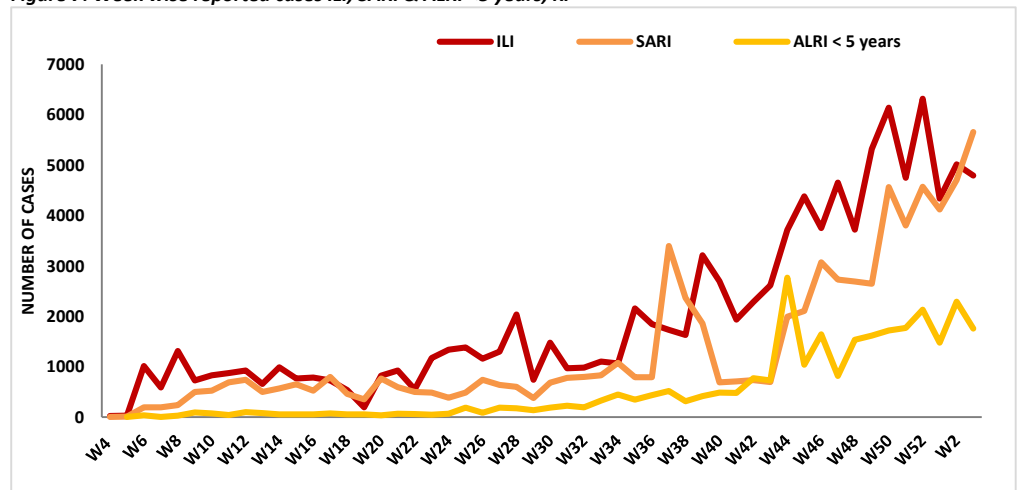


Table 4: District wise distribution of most frequently reported cases during week 3, KP

Diseases	Abbottabad	Charsadda	Haripur	Kohat	Lakki Marwat	Malakand	Swabi	Swat	Total
SARI	26	99	79	185	0	0	1,860	3,405	5,654
ILI	2	249	1,266	372	73	166	608	2,056	4,792
AD (Non-Cholera)	355	466	535	323	237	53	513	1,292	3,774
ALRI < 5 years	8	46	283	152	413	120	570	163	1,755
Malaria	0	608	8	89	319	37	18	61	1,140
Typhoid	9	104	36	18	22	0	51	130	370
B. Diarrhoea	1	34	11	48	13	2	20	127	256
Rabies / Dog bite	3	0	0	11	68	0	120	41	243
CL	0	0	0	9	20	2	0	121	152
VH (B, C & D)	0	0	0	6	58	0	56	2	122
AWD (S. Cholera)	0	3	58	15	0	0	20	14	110
AVH (A & E)	0	0	21	0	0	0	12	37	70
Chickenpox/ Varicella	0	0	15	2	0	4	24	6	51
Measles	0	2	5	0	14	1	6	5	33
Mumps	0	0	2	0	3	1	2	22	30
Syphilis	0	0	0	0	0	0	0	16	16
Pertussis	0	0	0	0	0	0	6	5	11
Meningitis	0	0	2	0	0	0	7	0	9
AFP	0	0	2	0	1	0	1	3	7
Brucellosis	0	0	1	0	0	0	0	0	1
HIV/AIDS	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=415), ALRI <5 years (n=241), AD (Non-Cholera) (n=159), CL (n=91), SARI (n=36), Mumps (n=10), B. diarrhea (n=06), Chickenpox (n=03), AWD (S. Cholera) (n=02) & Measles (n=02).
- During this week, an incline was observed for cases of ILI & ALRI <5 years as compared to last week i.e. Week 02.

(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 3, in comparison with previous weeks, ICT

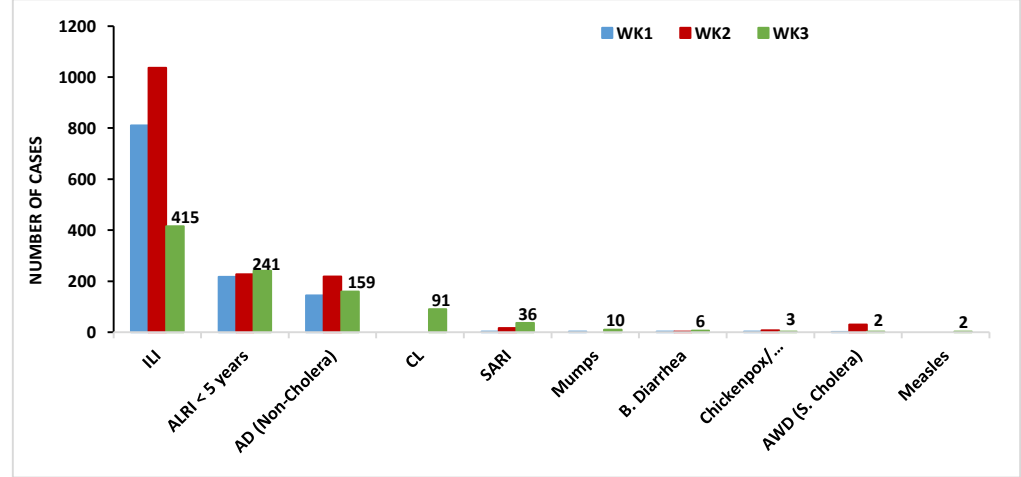


Figure 9: Week wise reported cases of ILI & ALRI <5 years, ICT

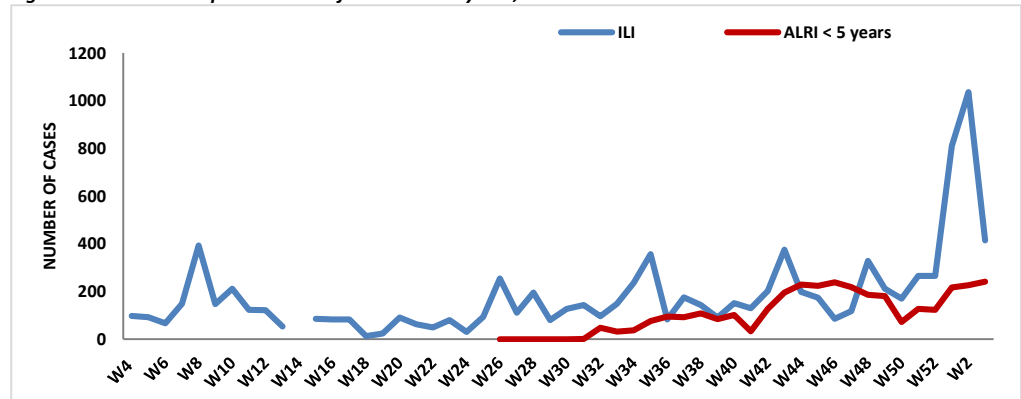


Figure 10: Most frequently reported cases during week 3, in comparison with previous weeks, GB

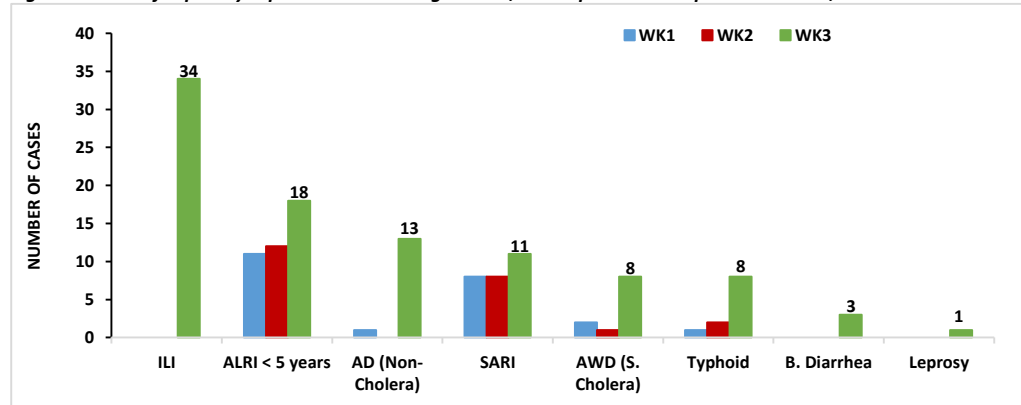
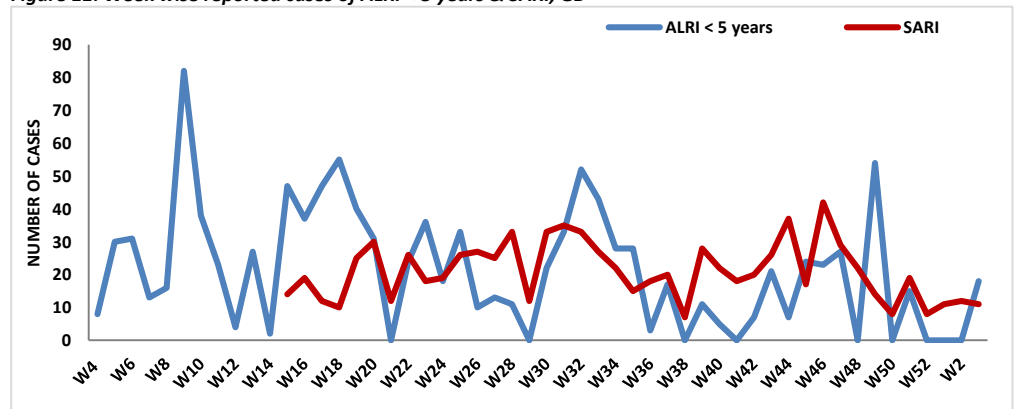


Figure 11: Week wise reported cases of ALRI <5 years & SARI, GB



### Gilgit Baltistan

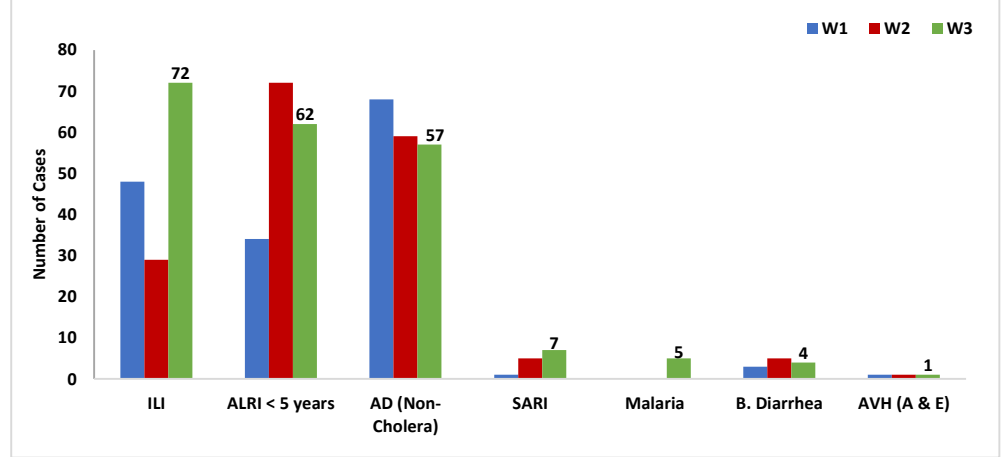
- Gilgit-Baltistan reported cases of ILI (n=34), ALRI <5 years (n=18), AD (Non Cholera) (n=13), SARI (n=11), AWD (S. Cholera) (n=08), Typhoid (n=08), B. diarrhea (n=03) & Leprosy (n=01) this week.
- Weekly trend cases of ALRI <5 years depicted an increase in trend while SARI cases depicted a similar trend as compared to previous week i.e. Week-02.

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

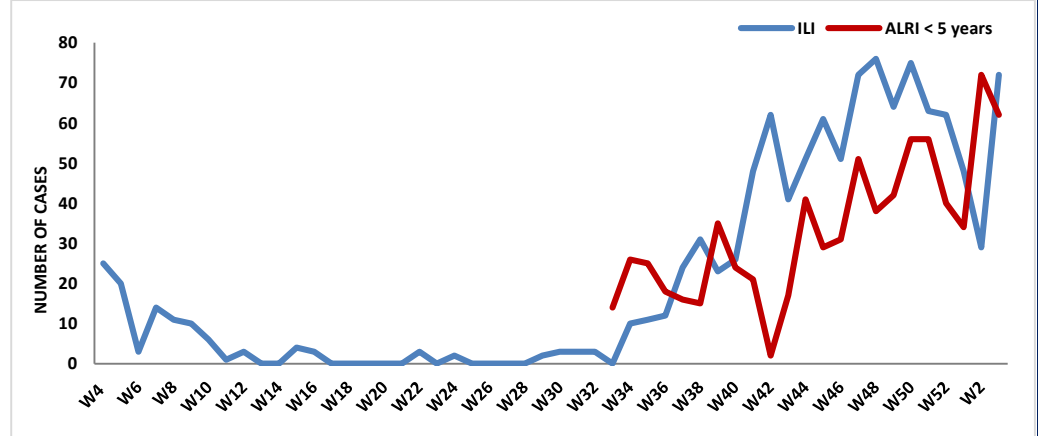
**AJK**

- District Mirpur reported cases of ILI (n=72), ALRI <5 years (n=62), AD (Non Cholera) (n=57), SARI (n=07), Malaria (n=05), B. diarrhea (n=04) & AVH (A & E) (n=01) & at maximum this week.
- Weekly trend of ALRI <5 years cases have shown an abrupt decline while ILI cases have depicted a sharp rise as compared to last week.

**Figure 12: Most frequently reported cases during week 3, in comparison with previous weeks, AJK**



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



### IDSR Participating Districts

- This week 13% (04/32) of districts reported hundred percent (%) data. Districts are Kohat, Lakki Marwat, Killa Abdullah & Nagar.
- Districts CDA (Islamabad) & Gwadar did not report data this week.

**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 (91%)	
	Kohat	59/59	59 (100%)	
	Abbottabad	110/110	92 (84%)	
	Charsadda	61/61	50 (82%)	
	Lakki Marwat	49/49	49 (100%)	
	Swat	77/77	69(89%)	
	Malakand	78/78	07 (08%)	
	Swabi	63/63	55 (87%)	
Azad Jammu Kashmir	Mirpur	37/37	30 (81%)	
Islamabad Capital Territory	ICT	18/18	14 (78%)	
	CDA	9/12	0	
Balochistan	Gwadar	24/24	0	
	Kech	44/78	24 (55%)	
	Khuzdar	20/136	19 (95%)	
	Killa Abdullah	28/50	28 (100%)	
	Lasbella	84/84	81(96%)	
	Pishin	23/118	15(65%)	
	Quetta	22/77	10 (45%)	
	Sibi	42/42	37 (88%)	
	Zhob	37/37	26(70%)	
	Jaffrabad	47/47	36(77%)	
	Naserabad	45/45	03 (06%)	
	Gilgit Baltistan	Hunza	30/30	29 (97%)
		Nagar	05/22	05 (100%)
Sindh	Hyderabad	63/63	55 (94%)	
	Karachi-East	14/14	13 (93%)	
	Karachi-Malir	43/43	37 (86%)	
	Ghotki	58/58	31 (53%)	
	Umerkot	30/118	12 (40%)	
	Naushahro Feroze	52/52	25 (48%)	
	Tharparkar	85/236	84 (98%)	
	Shikarpur	32/32	20 (63%)	
	Thatta	50/50	22 (44%)	
	Larkana	149/149	37 (25%)	
	Kamber	101/101	61 (60%)	
Punjab	Bahawalpur	91/91	20(22%)	

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