



# 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)

20<sup>th</sup> January 2022

#### Highlights of the Epi-Week-2 (10<sup>th</sup> – 16<sup>th</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) & suspected Cholera.
- In comparison with previous week i.e. Week-01, cases of all diseases depicted an upward trend.
- Cases of VPDs (Pertussis, Meningitis, Chickenpox & 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, therefore, 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 Gonorrhea & Syphilis cases from Sindh and Balochistan needs immediate investigation and public health response.

Figure 1: Most frequently reported cases during week 2, in comparison with previous weeks, Pakistan

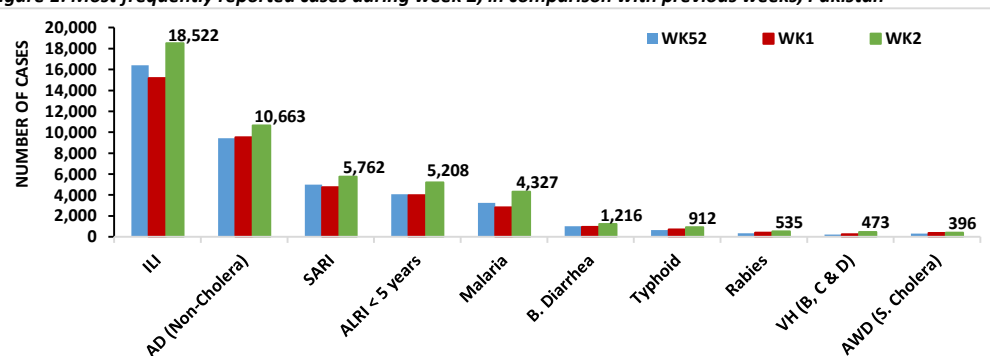


Table 1: Province/Area wise distribution of most frequently reported cases during week 2, Pakistan

Diseases	AJK	Balochistan	GB	ICT	KP	Sindh	Total
ILI	29	4,573	0	1,036	5,015	7,869	18,522
AD (Non-Cholera)	59	1,820	0	219	3,758	4,807	10,663
SARI	5	805	8	17	4,855	72	5,762
ALRI < 5 years	72	703	12	227	2,188	2,006	5,208
Malaria	0	1,165	0	1	1,388	1,773	4,327
B. Diarrhea	5	449	0	2	218	542	1,216
Typhoid	0	320	2	1	303	286	912
Rabies / Dog bite	0	60	0	0	214	261	535
VH (B, C & D)	0	108	0	0	182	183	473
AWD (S. Cholera)	1	89	1	30	107	168	396
CL	0	94	0	0	33	3	130
Gonorrhea	0	76	0	0	1	22	99
Pertussis	0	75	0	0	17	2	94
AVH (A & E)	1	5	0	0	49	35	90
Chickenpox/ Varicella	1	8	0	7	44	20	80
Dengue	0	3	0	0	2	61	66
Mumps	0	24	0	0	29	5	58
Syphilis	0	1	0	0	1	17	19
VL	0	2	0	0	8	0	10
Meningitis	0	1	0	0	1	6	8

##### Points of Attention

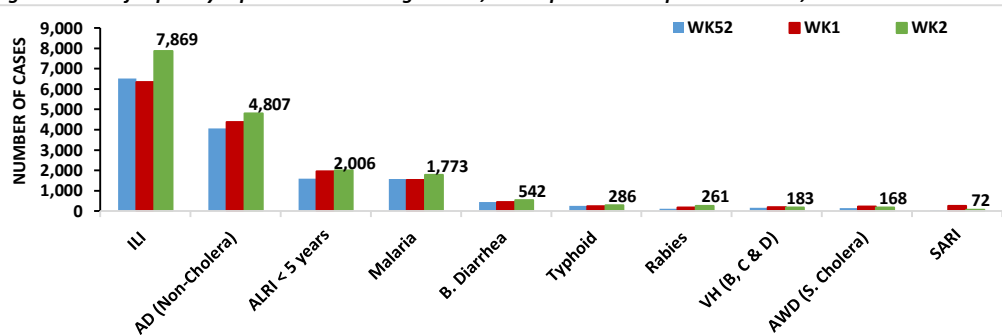
- Routine immunization is affected due to COVID-19 pandemic control activities, and regular Polio campaigns. Consequently, cases of vaccine preventable diseases (Measles, Mumps) are reported every week. **Therefore, vigilant monitoring, and coordination with EPI needs to be strengthened to reduce the VPD 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 especially in diarrheal diseases and typhoid affected districts.
- STI cases especially Gonorrhea, and Syphilis cases are regularly reported. This need to be epidemiologically investigated for confirmation and differential diagnosis. The public health response actions need to be implemented in the affected areas on priority basis.**
- Along-with infectious and non-infectious diseases, burden of Zoonotic diseases is increasing in Pakistan and Dog bite is amongst those diseases. To reduce cases, community awareness sessions may be arranged regularly. Moreover, at provincial level a comprehensive Rabies control plan should be developed on basis of One Health approach, and implemented accordingly.
- 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=7,869), AD (Non Cholera) (n=4,807), ALRI <5 Years (n=2,006), Malaria (n=1,773), B. diarrhea (n=542), Typhoid (n=286), Rabies/ Dog bite (n=261), VH (B, C & D) (n=183), AWD (S. Cholera) (n=168), & SARI (n=72).
- District Ghotki reported the maximum cases of ILI.
- District Hyderabad reported maximum cases of ILI, AD (Non Cholera), ALRI <5 years & B. diarrhea.
- From Kamber, maximum cases of AD (Non Cholera), Malaria, ALRI <5 years & Rabies/Dog bite.
- 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) were reported at maximum.
- District Naushahro Feroze maximum cases of ILI, AD (Non Cholera), Malaria & ALRI <5 years.
- District Shikarpur reported AD (Non Cholera) & Malaria cases at maximum.
- From Tharparkar, maximum cases of ILI, AD (Non-Cholera), ALRI <5 years & Malaria were reported.
- From Thatta, cases of ILI, Malaria, AD (Non Cholera) & ALRI <5 years were reported at maximum.
- From Umerkot, cases of AD (Non Cholera) were reported at maximum.
- Cases of AFP, HIV/AIDS, Leprosy & Brucellosis need immediate verification and public health response accordingly.
- This week, cases of ILI have shown a sharp incline while ALRI <5 years cases remained similar & Typhoid cases declined as compared to previous week.

(Note: NR= Not Reported)

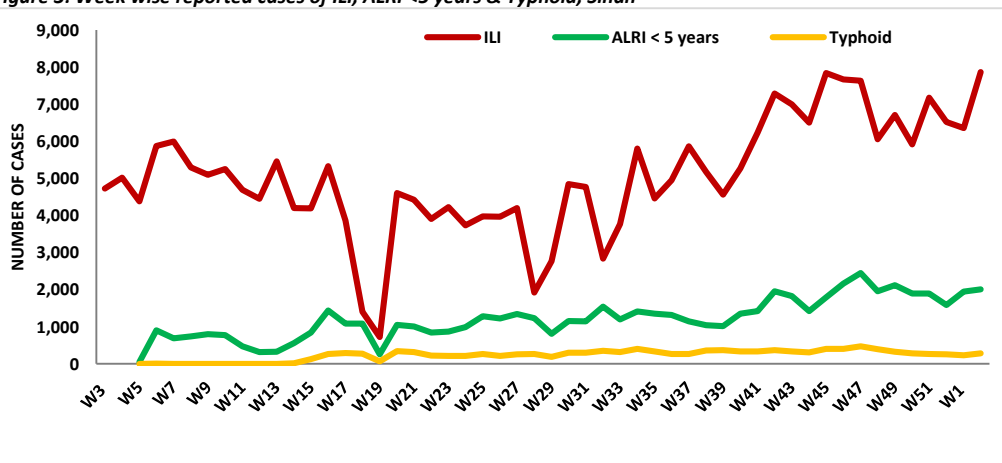
**Figure 2: Most frequently reported cases during week 2, in comparison with previous weeks, Sindh**



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

Districts	Ghotki	Hyder-abad	Kam-ber	Kar-East	Kar-Malir	Lar-kana	N. Feroze	Shikar-pur	Thar-parkar	Thatta	Umerkot
ILI	162	4,291	5	15	586	0	967	6	1,569	268	0
AD (Non-Cholera)	69	1,754	367	163	633	257	252	187	792	259	74
ALRI < 5 years	87	483	189	3	305	63	134	21	524	169	28
Malaria	13	54	244	22	88	334	176	121	437	260	24
B.Diarrhea	37	121	62	9	84	49	20	18	90	39	13
Typhoid	9	18	62	0	52	6	51	0	57	22	9
Rabies / Dog bite	52	1	110	0	29	4	5	45	6	9	0
VH (B, C & D)	35	76	3	0	7	7	8	2	15	18	12
AWD (S. Cholera)	5	37	69	0	37	1	0	0	0	17	2
SARI	0	26	0	0	8	0	1	8	27	1	1
Dengue	0	1	0	3	6	0	0	0	51	0	0
AVH (A & E)	0	20	0	0	1	0	0	0	12	2	0
Gonorrhea	0	9	0	0	2	5	2	0	3	1	0
Chickenpox/Vari cella	0	5	0	4	3	0	0	3	5	0	0
AFP	0	NR	8	0	0	0	0	1	2	0	0
HIV/AIDS	0	2	0	0	0	9	0	0	0	0	0
Measles	0	NR	1	2	0	0	0	3	1	0	0
Meningitis	0	NR	0	0	0	0	0	0	6	0	0
Pertussis	0	NR	0	0	1	0	0	0	0	1	0
Leprosy	0	NR	0	0	0	1	0	0	0	0	0
Brucellosis	0	0	0	0	1	0	0	0	0	0	0

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



## Balochistan

- From Balochistan overall ILI (n=4,573), AD (Non Cholera) (n=1,820), Malaria (n=1,165), SARI (n=805), ALRI <5 years (n=703), B. diarrhea (n=449), Typhoid (n=320), VH (B, C & D) (n=108), CL (n=94), AWD (S. Cholera) (n=89) remained at maximum.
- District Gwadar reported maximum cases of ILI & AD (Non Cholera).
- District Jaffarabad reported maximum cases of Malaria, AD (Non Cholera), ALRI <5 years, ILI, Typhoid & B. diarrhea.
- District Kech reported cases of ILI, AD (Non Cholera) & ALRI <5 years 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), SARI, Malaria & ALRI <5 years.
- District Naseerabad reported maximum cases of AD (Non Cholera) & Malaria.
- District Pishin reported cases for ILI & ALRI <5 years at maximum.
- District Quetta reported maximum cases for ILI.
- Sibi reported maximum cases of ILI & AD (Non Cholera).
- District Zhob reported maximum cases of SARI & ILI.
- Cases of Anthrax, Brucellosis & Chikungunya have been reported which need immediate verification and response accordingly.
- Persistent reporting of Gonorrhea cases needs investigation for differential diagnosis, proper follow up.
- Cases of VPDs have been regularly reported, and therefore, needs strengthening of routine immunization system.
- In comparison with last week, cases of ILI, SARI & ALRI <5 years have been increased sharply.

Figure 4: Most frequently reported cases during week 2, in comparison with previous weeks, Balochistan

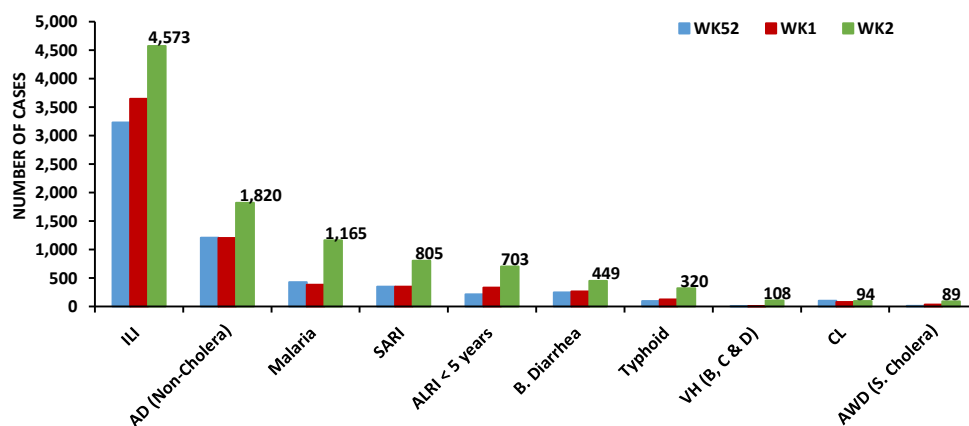
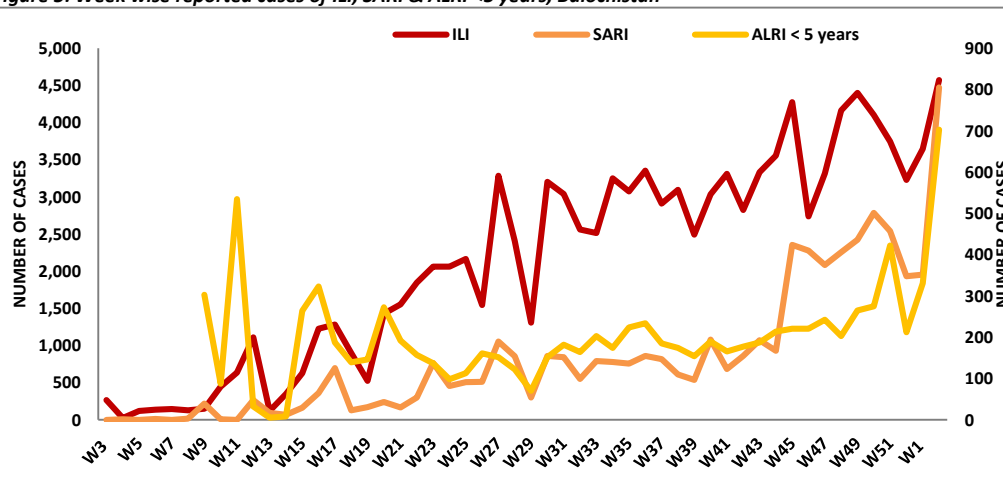


Table 3: District wise distribution of most frequently reported cases during week 2, Balochistan

Districts	Gwadar	Jaffarabad	Kech (Turbat)	Khuzdar	Killa Abdullah	Lasbella	Naseerabad	Pishin	Quetta	Sibi	Zhob
ILI	549	160	1,889	193	267	72	30	416	523	240	234
AD (Non-Cholera)	151	456	443	86	163	182	75	31	62	116	55
Malaria	61	681	63	26	6	174	67	3	2	24	58
SARI	40	138	32	13	NR	177	2	0	0	5	398
ALRI <5 years	NR	248	98	25	NR	157	24	128	0	14	9
B. Diarrhea	54	124	68	48	NR	29	10	34	20	30	32
Typhoid	30	146	9	26	4	18	47	7	11	11	11
Anthrax	NR	0	0	0	NR	0	0	0	0	0	0
VH (B, C & D)	NR	98	0	8	NR	0	1	0	0	0	1
CL	NR	30	0	2	13	23	3	9	10	4	0
AWD (S. Cholera)	NR	5	0	0	NR	55	0	3	4	21	1
Gonorrhea	NR	58	0	13	NR	0	0	4	0	1	0
Pertussis	NR	31	0	3	NR	2	2	30	0	0	7
Rabies / Dog bite	NR	43	0	0	2	6	1	6	0	2	0
Mumps	NR	13	4	2	NR	2	0	2	0	1	0
Brucellosis	NR	22	0	0	NR	0	0	0	0	0	0
Measles	NR	1	1	5	7	1	0	0	0	0	0
Chickenpox/ Varicella	NR	1	0	0	NR	0	0	0	0	5	2
Chikungunya	NR	0	0	0	NR	2	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 ILI (n=5,015), SARI (n=4,855), AD (Non Cholera) (n=3,758), ALRI <5 years (n=2,188), Malaria (n=1,388), Typhoid (n=303), B. diarrhea (n=218), Rabies/Dog bite (n=214), VH (B, C & D) (n=182) & suspected Cholera (n=107) 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 ILI, AD (Non-Cholera) & ALRI <5 years.
- District Kohat reported maximum cases of ILI, SARI, AD (Non Cholera) & Malaria.
- District Lakki Marwat reported maximum cases of Malaria, ALRI <5 years & AD (Non-Cholera).
- District Malakand reported maximum cases of ILI.
- District Swabi reported maximum cases of SARI, ALRI <5 years, AD (Non Cholera) & ILI.
- District Swat reported maximum cases of SARI, ILI, AD (Non Cholera), ALRI <5 years, Typhoid & B. diarrhea.
- Cases of Measles, Mumps, Diphtheria, Pertussis, NT & Chickenpox have been reported, which need immediate public health actions and strengthening of routine immunization to reduce burden of VPDs.
- Cases of AFP & Brucellosis need verification and further workup accordingly.
- Weekly cases of ILI, SARI & ALRI <5 years cases depicted an abrupt incline as compared to the last week i.e. week 01.

Figure 6: Most frequently reported cases during week 2, in comparison with previous weeks, KP

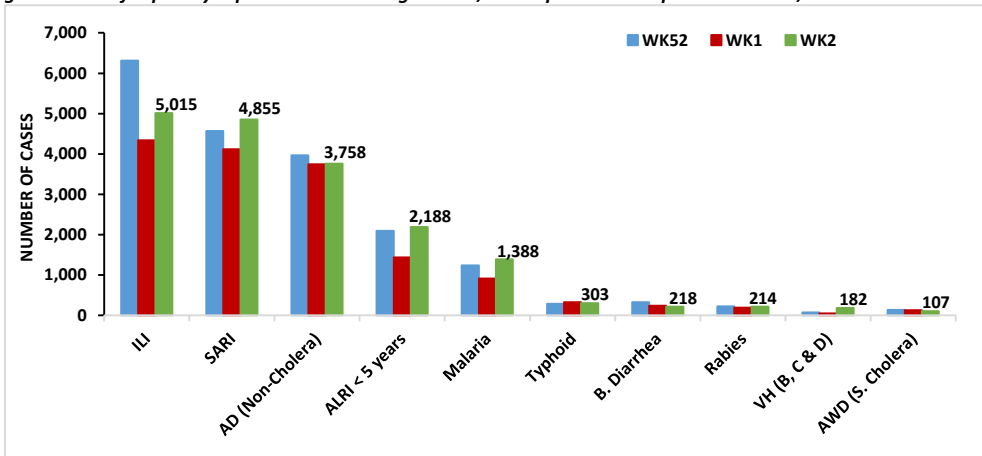
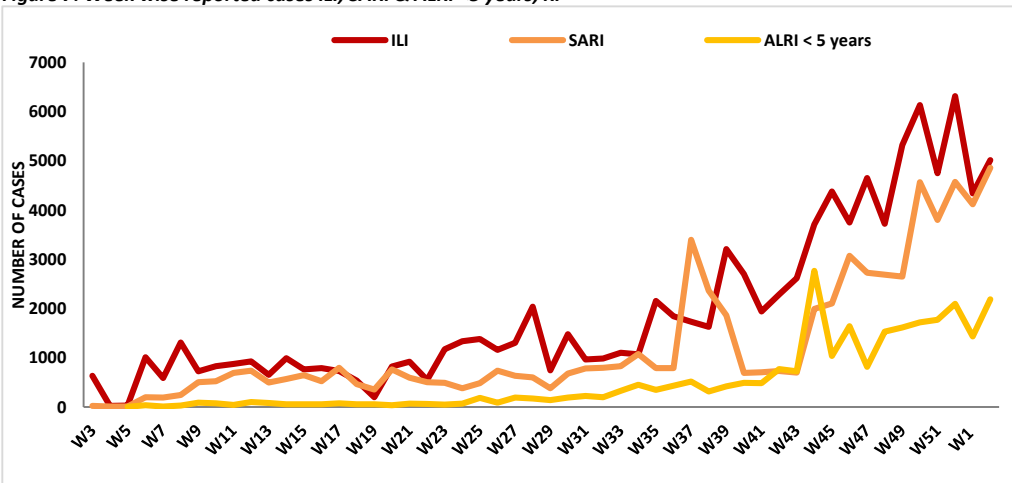


Table 4: District wise distribution of most frequently reported cases during week 2, KP

Diseases	Abbottabad	Charsadda	Haripur	Kohat	Lakki Marwat	Malakand	Swabi	Swat	Total
ILI	0	168	1,297	534	32	82	548	2,354	5,015
SARI	35	114	52	295	1	0	1,362	2,996	4,855
AD (Non-Cholera)	339	523	629	258	256	58	585	1,110	3,758
ALRI < 5 years	11	79	549	74	266	31	1,091	87	2,188
Malaria	0	723	21	113	454	0	18	59	1,388
Typhoid	7	67	33	17	24	0	43	112	303
B. Diarrhea	3	48	9	26	16	0	13	103	218
Rabies / Dog bite	3	0	0	17	65	0	97	32	214
VH (B, C & D)	0	0	0	13	97	0	66	6	182
AWD (S. Cholera)	0	0	36	18	2	0	15	36	107
AVH (A & E)	0	0	19	0	0	0	3	27	49
Chickenpox/ Varicella	0	0	11	3	2	2	21	5	44
Measles	0	1	14	3	11	0	7	7	43
Mumps	0	0	5	2	1	0	6	15	29
Pertussis	0	0	0	1	0	0	15	1	17
Diphtheria (Probable)	0	1	0	0	1	0	0	0	2
AFP	0	0	0	0	0	0	1	1	2
NT	0	0	0	0	0	0	2	0	2
Brucellosis	0	0	0	0	0	0	0	2	2

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



### Islamabad (ICT)

- From ICT, the most frequent reported diseases were ILI (n=1,036), ALRI <5 years (n=227), AD (Non-Cholera) (n=219), AWD (S. Cholera) (n=30), SARI (n=17), Chickenpox (n=07), B. diarrhea (n=02), Malaria (n=01) & Typhoid (n=01).
- During this week, an increase was observed for cases of ILI & ALRI <5 years as compared to last week i.e. Week 01.

(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 2, in comparison with previous weeks, ICT

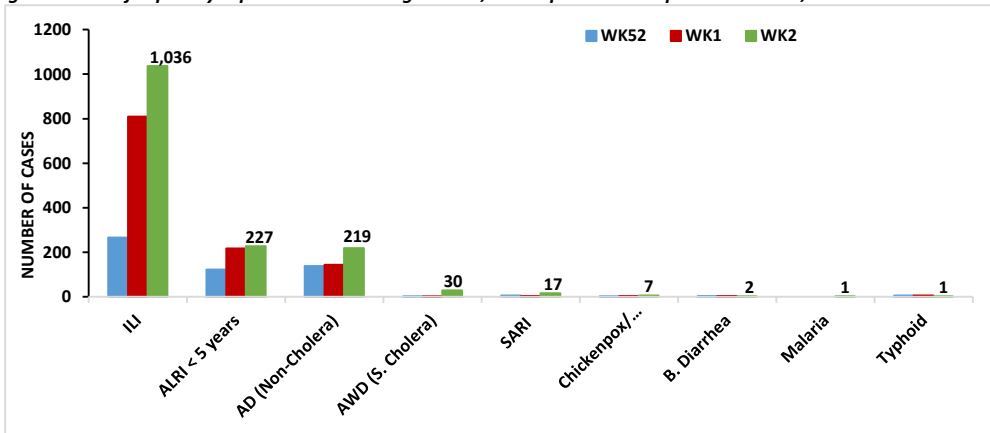


Figure 9: Week wise reported cases of ILI & ALRI <5 years, ICT

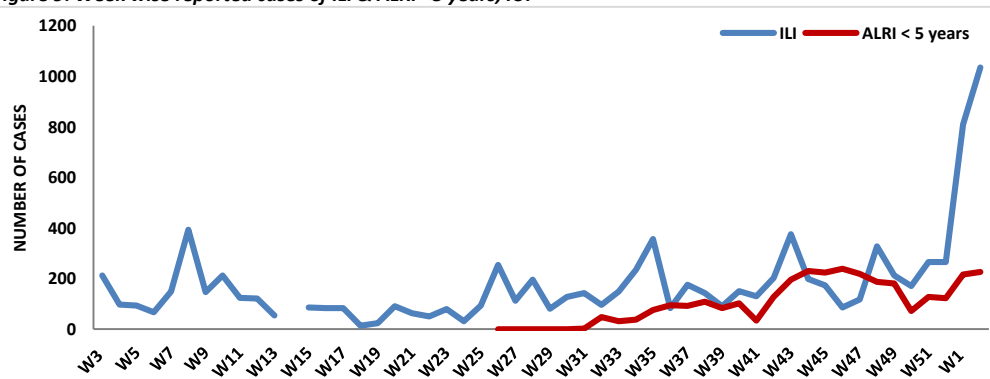


Figure 10: Most frequently reported cases during week 2, in comparison with previous weeks, GB

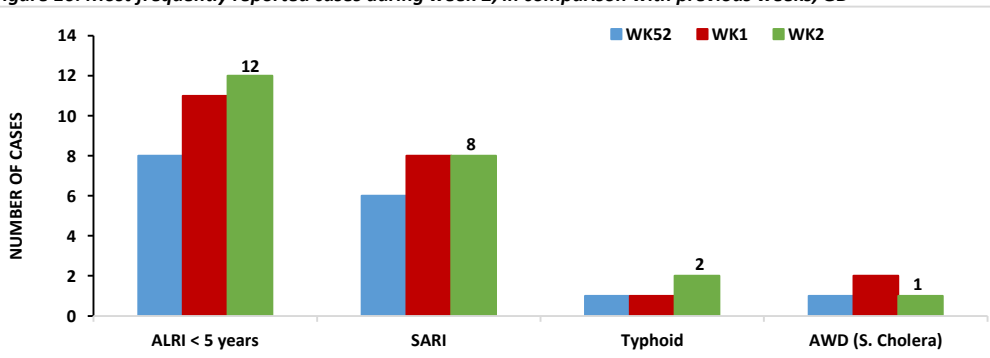
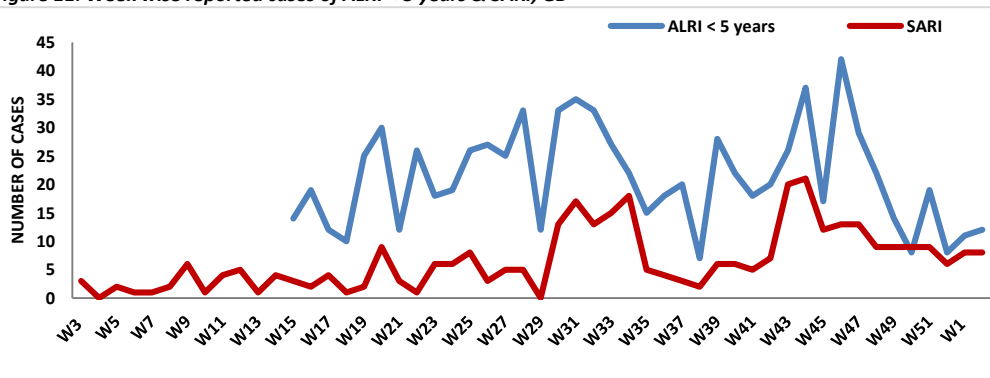


Figure 11: Week wise reported cases of ALRI <5 years & SARI, GB



# AJK

- District Mirpur reported cases of ALRI <5 years (n=72), AD (Non Cholera) (n=59), ILI (n=29), B. diarrhea (n=05), SARI (n=05), AWD (S. Cholera) (n=01), AVH (A & E) (n=01) & Chickenpox (n=01) at maximum this week.
- Weekly trend of ALRI <5 years cases depicted a marked increase while cases of SARI were declined as compared to last week.

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

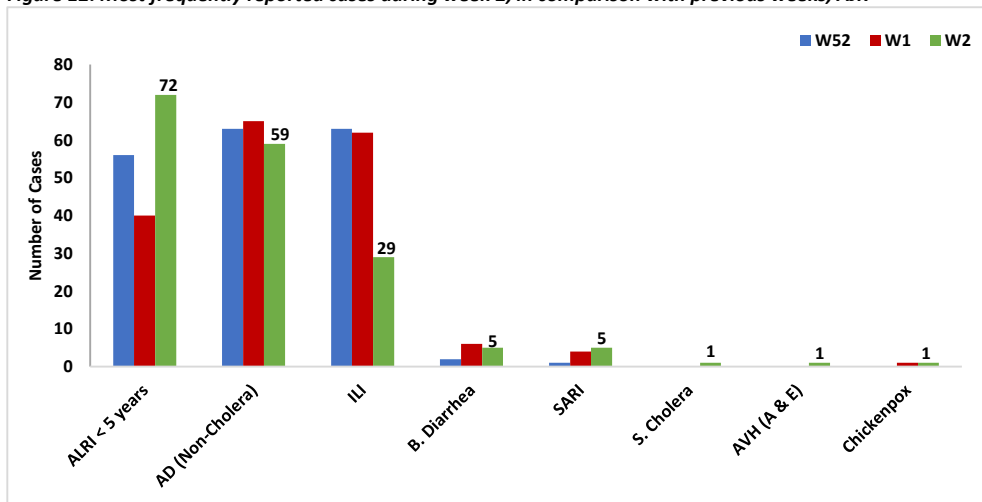
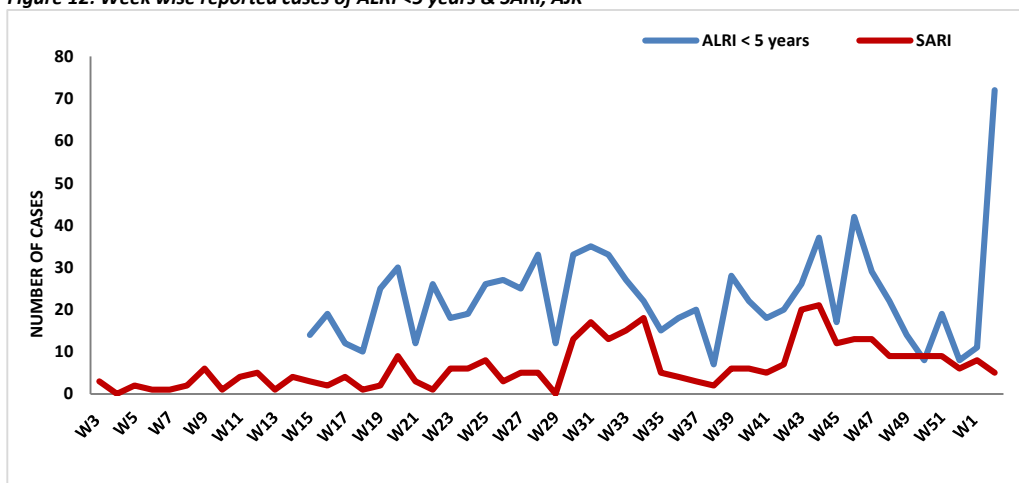


Figure 12: Week wise reported cases of ALRI <5 years & SARI, AJK



### IDSR Participating Districts

- This week 19% (06/32) of districts reported hundred percent (%) data. Districts are Kohat, ICT & CDA (Islamabad), Gwadar, Killa Abdullah & Lasbella.
- District Nagar 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	65 (96%)
	Kohat	59/59	59 (100%)
	Abbottabad	110/110	92 (84%)
	Charsadda	61/61	50 (82%)
	Lakki Marwat	49/49	48 (98%)
	Swat	77/77	65(85%)
	Malakand	78/78	06 (08%)
	Swabi	63/63	60 (96%)
Azad Jammu Kashmir	Mirpur	37/37	30 (81%)
Islamabad Capital Territory	ICT	18/18	18 (100%)
	CDA	9/12	9 (100%)
Balochistan	Gwadar	24/24	24 (100%)
	Kech	44/78	41 (94%)
	Khuzdar	20/136	19 (91%)
	Killa Abdullah	28/50	28 (100%)
	Lasbella	84/84	84(100%)
	Pishin	23/118	12(53%)
	Quetta	22/77	14 (64%)
	Sibi	42/42	37 (88%)
	Zhob	37/37	23(63%)
	Jaffrabad	47/47	36(77%)
	Naserabad	45/45	35 (78%)
Gilgit Baltistan	Hunza	30/30	29 (97%)
	Nagar	05/22	0
Sindh	Hyderabad	63/63	59 (94%)
	Karachi-East	14/14	13 (93%)
	Karachi-Malir	43/43	34 (79%)
	Ghotki	58/58	06 (11%)
	Umerkot	30/118	05 (17%)
	Naushahro Feroze	52/52	26 (50%)
	Tharparkar	85/236	77 (91%)
	Shikarpur	32/32	13 (41%)
	Thatta	50/50	29 (58%)
	Larkana	149/149	30 (21%)
	Kamber	101/101	64 (64%)

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