



## WEEKLY FIELD EPIDEMIOLOGY REPORT

Volume 2-- Issue 47 Nov 15-21, 2020

Date: November 25, 2020

Provincial Technical Officers and fellows of FELTP assigned at the Disease Surveillance, Response Units (DSRU's) are working with provincial, and district health authorities on event based disease surveillance and outbreak response. DSRUs are sharing the disease surveillance data, outbreak reports and activities of FELTP fellows to the Federal Disease Surveillance and Response Unit (FDSRU) at the Field Epidemiology and Disease Surveillance Division (FEDSD) National Institute of Health (NIH) Islamabad on weekly basis.

### COVID-19 Surveillance

PDSRUs in Provinces are working with the provincial department of health on COVID-19 surveillance, response and contact tracing since February, 2020 in Pakistan. FELTP fellows Alumni are actively involved in COVID-19 Surveillance throughout Pakistan. Data is being shared with FDSRU on daily basis and a SITRIP is being issued by FEDSD National Institute of Health Islamabad. FDSRU has developed a mechanism for tracking of travelers from other countries to Pakistan since 02

February 2020. Daily flights data from international airports in Pakistan is being shared by the Central Health establishment (CHE) Islamabad with FDSRU teams who conduct daily calls on given contact numbers of the travelers to ask about their health status, advise them for immediate contact at the nearest designated hospital in case of COVID-19 symptoms. Total 74,237 travelers have been traced and contacted by November 21, 2020.

Table-1: Weekly Surveillance data COVID-19 by November 21, 2020

Province/ Region	Suspected cases reported	Lab Update		Hospital Update		
		Cumulative	tests performed (Cumulative)	Tested positive cases (Cumulative)	Still admitted	Discharged/Recovered Expired
AJK	76,850	77,487	6,000	82	4,410	140
Baluchistan	107,107	142,373	16,744	22	15,990	161
GB	49,743	51,728	4,526	11	4,270	94
Islamabad	599,647	606,745	26,569	256	21,712	278
KP	415,802	568,241	44,097	372	39,930	1,325
Punjab	1,758,013	1,849,653	114,010	843	97,991	2,848
Sindh	1,872,262	1,883,799	162,227	553	145,525	2,816
Total	4,879,424	5,180,026	374,173	2139	329,828	7,662

### PDSRU SINDH

Total 150,169 confirmed COVID-19 cases were reported from Sindh until Nov 14, 2020. Most of these cases were reported from Karachi District (n=102,917) followed by District Hyderabad (n=6,170), District Sukkur (n=4,061) and District

Ghotki (n=3,736). Age group 50-59 has the highest attack rate (802/100,000) followed by 30-39 years age group (672/100,000), ≥70 years age group (654/100,000 & 40-49 years age group (610/100,000 population)

Figure-1: Sindh - District-wise distribution of COVID-19 cases (Cumulative up to week 47)

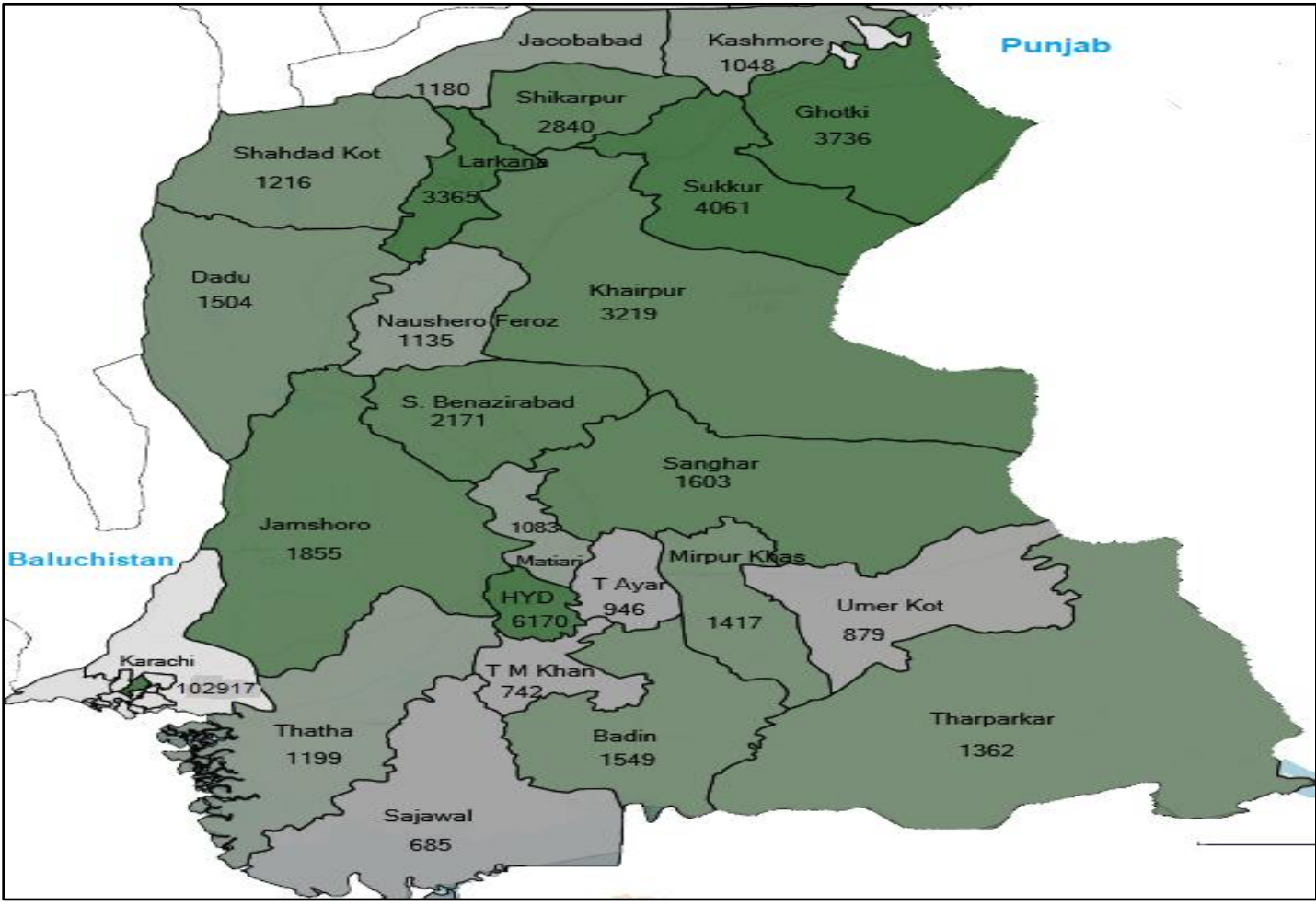
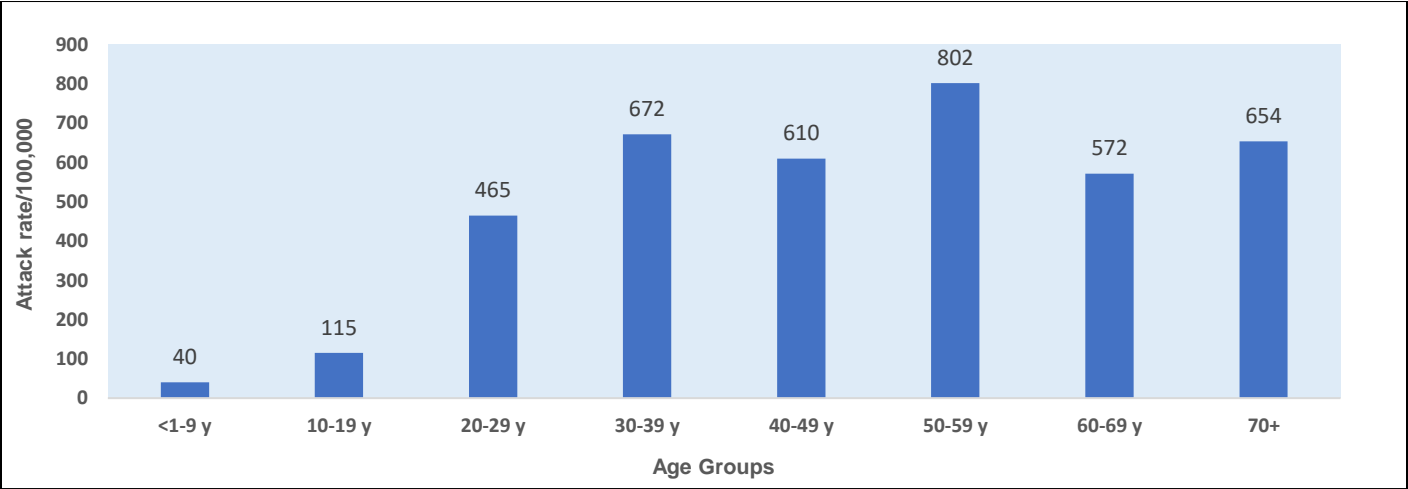


Figure-2: Sindh – Age group-wise Attack Rates /100,000 population (Nov 21, 2020)

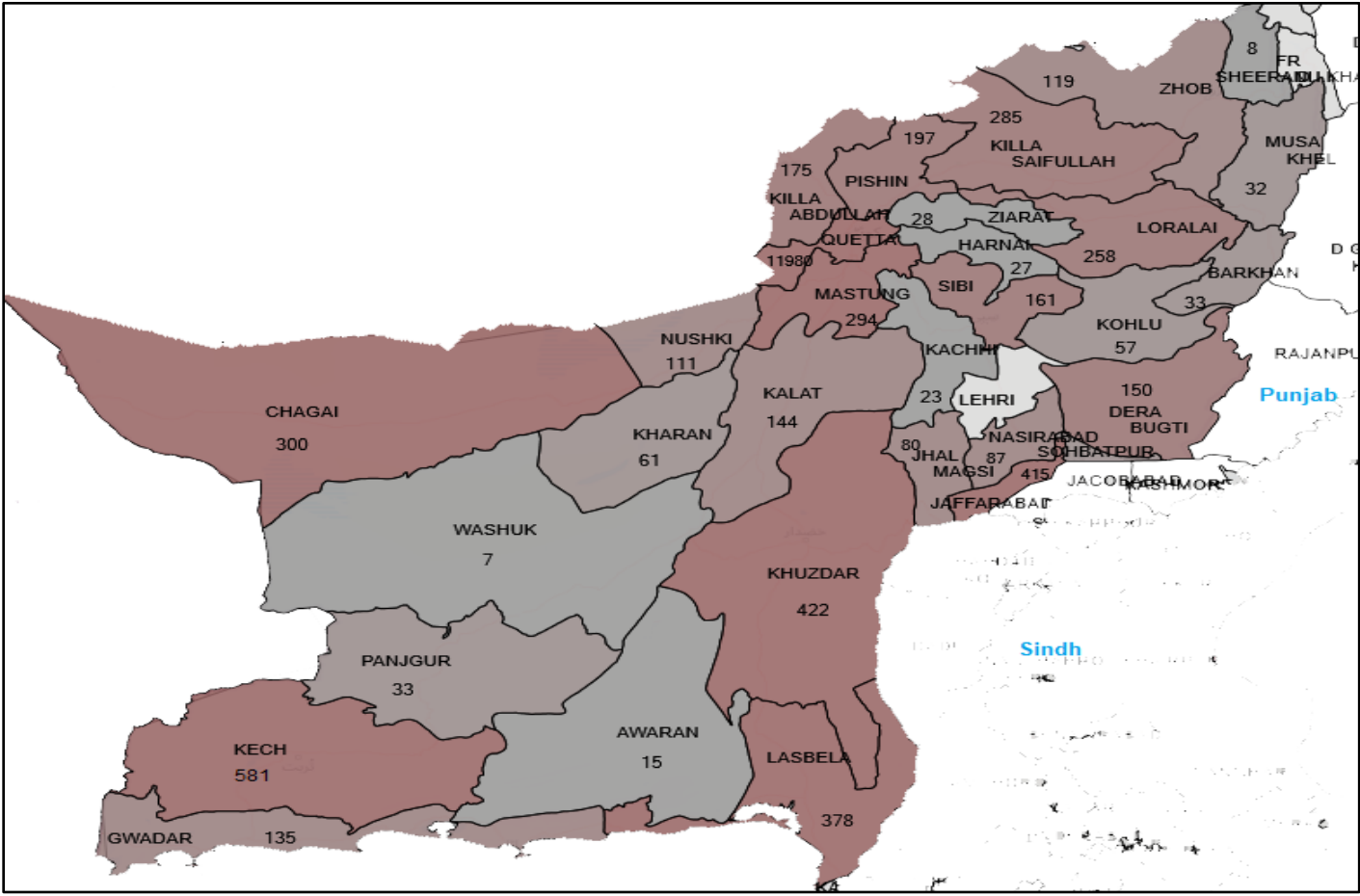


**PDSRU - Baluchistan province**

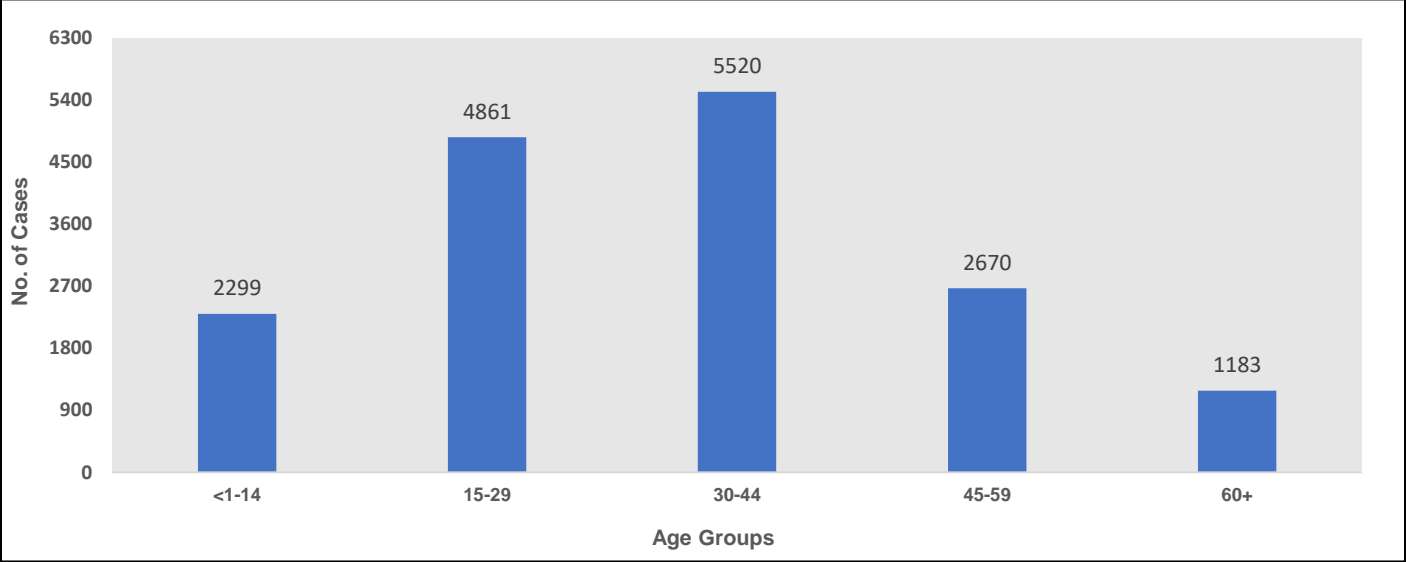
The department of Health Baluchistan has reported 16,810 positive cases of COVID-19 and 161 deaths till Nov 21, 2020. 16,031 cases have recovered. District Quetta has the highest number of confirmed cases(n=11,980) followed by District Kech (n=581),

District Khuzdar (n=422) and District Jaffarabad (n=415). Age group 30-44 has the highest number of COVID-19 cases (n=5,520) followed by age group 15-29 (n=4,861) & age group 45-59 (n=2,670).

**Figure-5: Geographical Distribution of COVID-19 Cases in Baluchistan Province (Cumulative up to Week 47)**



**Figure-6: Baluchistan –Age group wise distribution of COVID-19 positive cases (up to Nov 21,2020)**



**PDSRU- Gilgit-Baltistan (GB)**

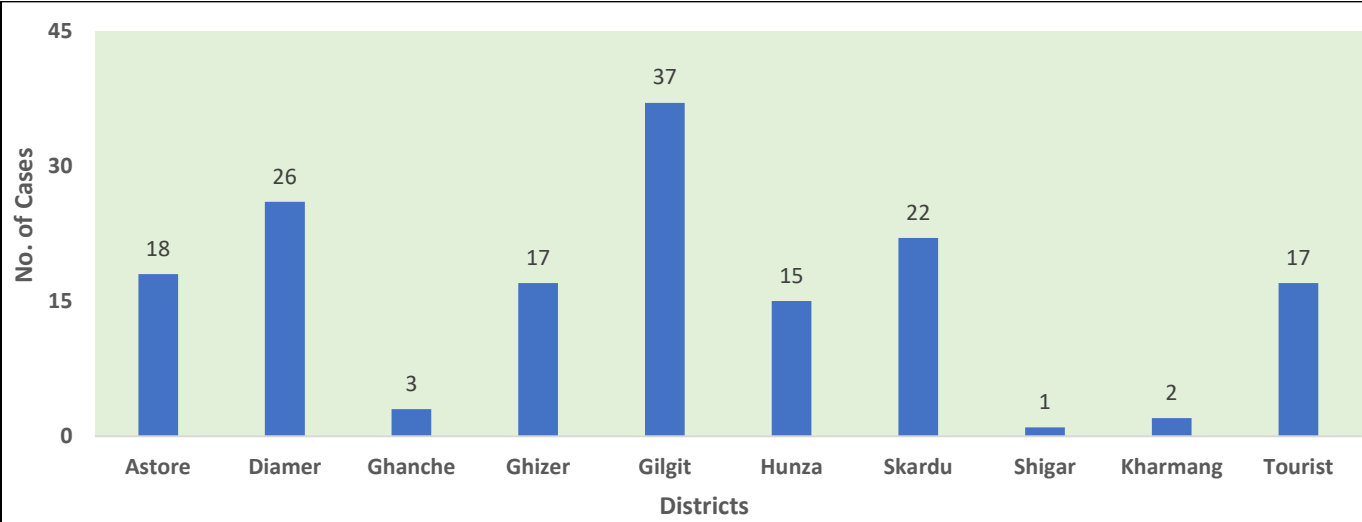
PDSRU GB has reported total 50,358 suspected cases of COVID-19 and out of these 5,116 were lab confirmed COVID-19 up to Nov, 21 and 142 cases were detected during last week, while no lab results are awaited. 50,027 samples were processed and 38,759 suspects were declared negative for COVID-

19. 4,108 cases have recovered from COVID-19 while 95 cases expired. During current week highest number of COVID-19 cases were detected in District Gilgit (n=37) followed by District Diamer (n=26), District Skardu (n=22) and tourist (n=17).

Table -2 Detail of number of samples, confirmed Covid-19 cases & Deaths in GB up to Nov 21, 2020

District	Number of Samples	Negative	Total Samples Processed	Positive	Awaited	Recovered	Expired	Samples Discarded
Astore	6537	5763	6529	18	00	346	05	08
Diamer	5918	4434	5917	26	00	203	04	01
Ghanche	2759	2356	2673	03	00	97	04	86
Ghizer	3559	2999	3557	17	00	363	07	02
Gilgit	12451	10182	12367	37	00	1562	36	84
Hunza	7396	3136	7379	15	00	570	03	17
Kharmang	1957	1818	1933	02	00	96	00	24
Nagar	2152	1624	2150	01	00	198	04	02
Shigar	1516	1265	1491	01	00	106	04	25
Skardu	6113	5182	6031	22	00	567	28	82
Grand Total	50358	38759	50027	142	00	4108	95	331

Figure-7: GB-District-Wise distribution of confirmed COVID-19 cases up to Nov 21, 2020



**PDSRU-AJK**

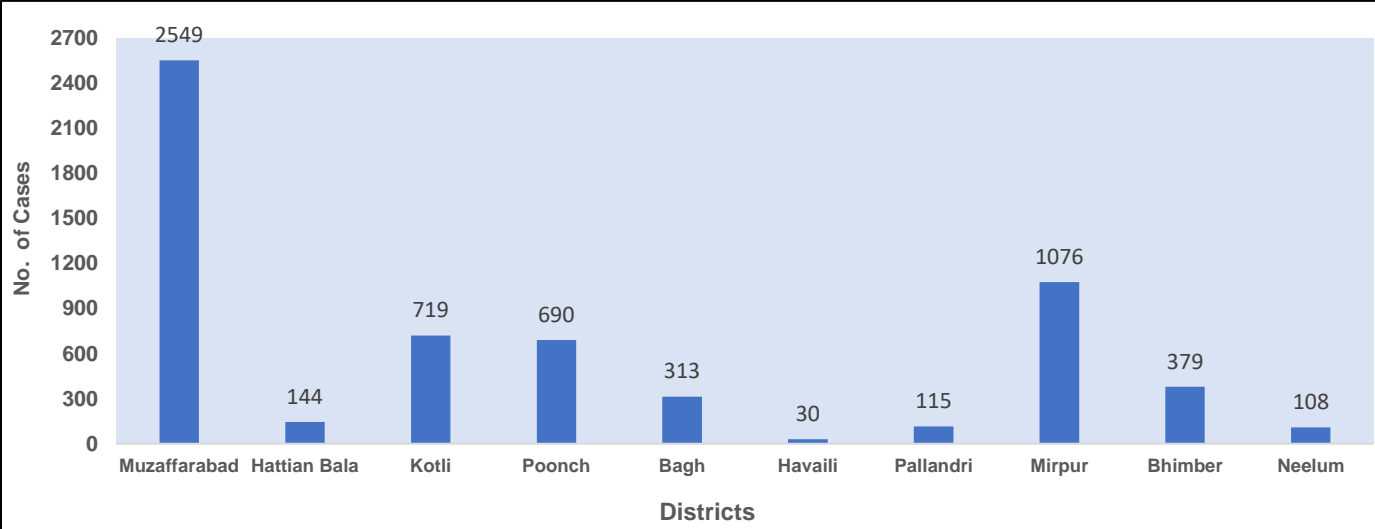
PDSRU AJK has reported total 78,561 suspected cases of COVID-19 and out of these 6,123 were lab confirmed COVID-19 up to Nov 21, 2020 while no lab- results of suspected cases are awaited. 4,498

cases have recovered from COVID-19 and 144 cases expired due to COVID-19. District Muzaffarabad has the highest number of cases (n=2549) followed by District Mirpur (n=1076), District Kotli (n=719) and District Poonch (n=690).

Table -3: Distribution of suspected and confirmed Covid-19 cases in AJK up to Nov 21,2020

Total Suspected Cases	Lab Tests Conducted	Lab Confirmed Cases	Active Cases	Recovered	Total Deaths
78,379	78,561	6,123	1,481	4,498	144

Figure-8: AJK-District-Wise distribution of confirmed COVID-19 cases up to Nov 21, 2020

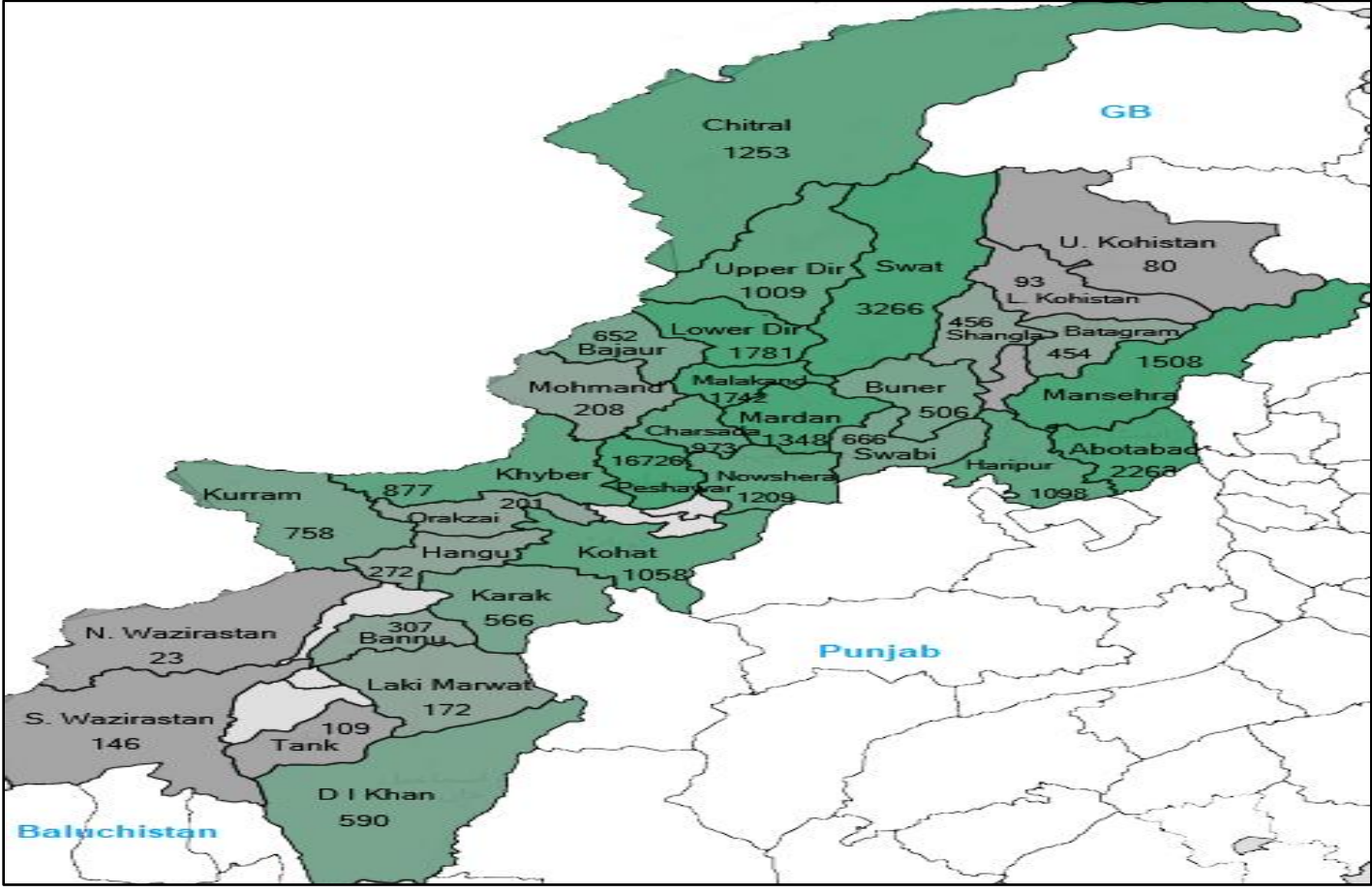


**PDSRU-KPK**

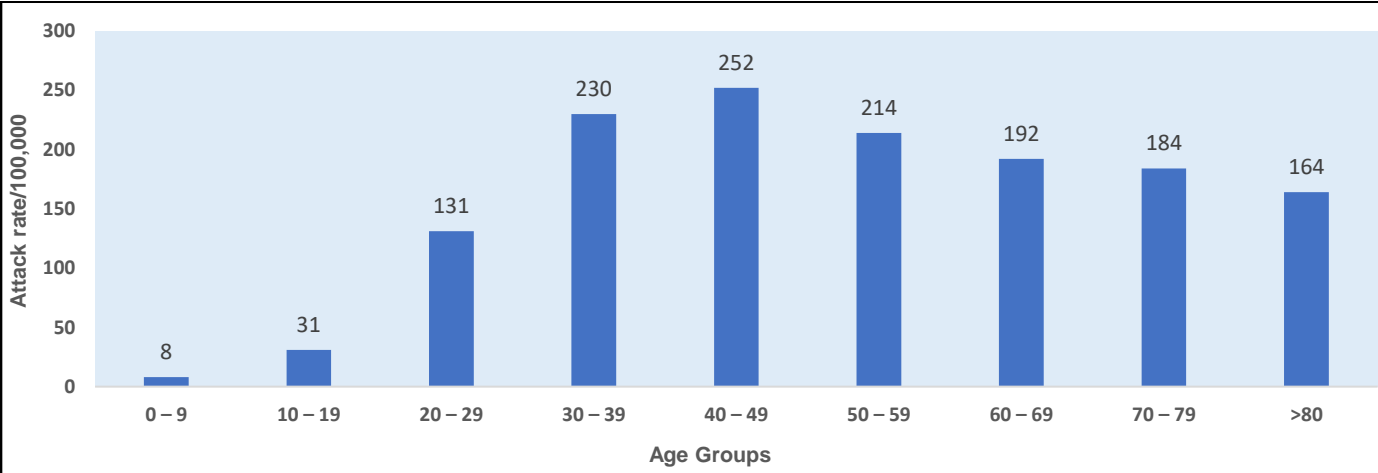
PDSRU KPK has reported total 415,802 suspected cases of COVID-19 and out of these 44,599 were lab confirmed COVID-19 up to November 21, 2020 while 1328 patients expired. District Peshawar has the highest number of cases (n=16726) followed by

District Swat (n=3266), District Malakand (n=1742) and District Mardan (n=1348). Age group 40-49 years has the highest attack rate/100,000 (AR=252) followed by 30-39 years age group (AR=230) and 50-59 years age group (AR=214).

**Figure-11: Geographical Distribution of COVID-19 Cases in KPK Province (Cumulative up to Week 47)**



**Figure-12: KPK –Attack rates /100,000 population in different age groups (up to Nov 21, 2020)**



**Communicable Disease Surveillance**

**Influenza Suspected/Confirmed:**

In 2018, total 3221 and in 2019 total 100 Suspected/confirmed Influenza cases reported from PDSRUs/RDSRUs. In week 47, no suspected cases were reported.

**Diphtheria Surveillance:**

During 2018 total 464 and during 2019 total 614-suspected cases of Diphtheria were reported. In week 47, no case reported from any province or region.



Dengue Surveillance:

In 2018, total **3204** Dengue cases reported from Sindh Total **24,610** cases reported which includes **48** new case reported from Baluchistan. In week 47, 340 cases reported from Sindh, ICT & Baluchistan.

CCHF Surveillance:

In 2018, total **63** CCHF (suspected and confirmed) cases were reported from DSRUs and **75** cases have been reported in 2019. During week 47, no cases reported from all provinces & region.

Table-4: Weekly and Cumulative Diseases Updates Nov 21, 2020

	Disease	Total Cases in 2019	Nov 15-21, 2020	Total Cases in 2020
1	CCHF	75	0	19
2	Varicella	1,264	0	235
3	Dengue	24,547	340	2868
4	Chikungunya	0	0	0
5	Measles	6,781	15	1791
6	Diphtheria	614	0	135
7	Suspected / confirmed Seasonal Influenza	100	0	9

Table 5: Dengue cases reported in 2017, 2018, month-wise distribution in 2019 & current week (All provinces and regions)

Month	KPK	Sindh	AJK	ICT	TDs - KP	Baluch	Punjab	Total
Jan–Dec 2017	18,857	2,884	6	120	406	86	579	22,938
Jan-Dec 2018	332	2088	1	0	175	69	539	3204
Jan-Dec 2019	5214	2937	506	2847	1484	2841	8826	24547
Total	24403	7909	513	2967	2065	3057	9944	50750
21-11-2020	0	280	0	9	0	51	0	340
Total (2020)	03	2055	2	168	0	402	38	2,668

Extensive drug Resistant (XDR) Typhoid Fever Surveillance in Sindh Province

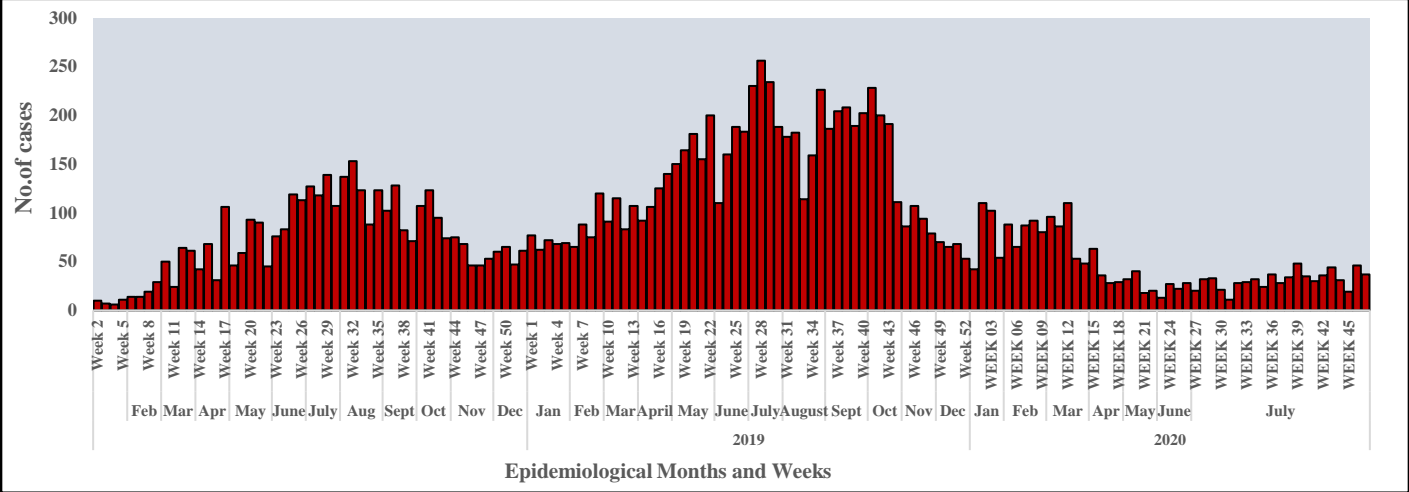
In Karachi total 13,330 cases of extensive drug resistance typhoid fever were reported from January 01, 2017 to Nov 21, 2020. During current week total 37 cases of XDR typhoid fever were reported from different hospitals in Karachi. The XDR Typhoid cases were reported mostly among the children and maximum number of XDR cases 5140 (39%) were

reported in the age group 0-4 years. The overall attack rate was 65/100,000. The age group 0-4 years was the most affected (attack rate 188/100,000) followed by age group 5-9 years (AR 138/100,000). Females have higher attack rate 75/100,000 compared to Males.

Table-6: Number of XDR Typhoid fever cases Karachi from January 1, 2017 to Nov 21, 2020

Year	Year	XDR Cases
Jan to December	2017	175
Jan to December	2018	3712
Jan to December	2019	7088
January 01, to Nov 14,2020	2020	2355
Total		13,330

Figure 13: Week-wise number of XDR Typhoid fever cases in Karachi, from January 1, 2017 to Nov 21, 2020



**XDR Typhoid Surveillance Data Sindh-Province (Excluding Karachi)**

Total 6899 Salmonella Typhoid cases reported from November 2016 to Nov 21, 2020 from different districts of Sindh province (excluding Karachi). Among these cases 5266 were Extensive Drug Resistant cases. Out of these cases n=3676 (69.8%) were reported from District Hyderabad. The most affected age group was 0 to 4 years (n=1394) with attack rate 47.2 per/10000 population followed by 5-9 years of age group (n= 1036) with attack rate 35.4/10000 population. Over all attack rate is 16.8/10000 population (n=3676).

Table 7: Extensive drug Resistant (XDR) Typhoid Fever Surveillance Hyderabad and other districts

Year	Hyderabad	Other District	Total
2016	12	0	12
2017	485	4	489
2018	891	207	1098
2019	1645	998	2643
January 01 – Nov 14, 2020	633	376	1009
Current week - Nov 15-21, 2020	10	5	15
Total	3,676	1,590	5,266

Figure 14: XDR Typhoid Cases District Hyderabad Nov-2016 to Nov 21, 2020

