



WEEKLY FIELD EPIDEMIOLOGY REPORT

Volume 2-- Issue 24 June 21-27, 2020

Date: June 29, 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 48,752 travelers have been traced and contacted by June 27, 2020.

Table-1: Weekly Surveillance data COVID-19 by June 27, 2020

Province/ Region	Suspected cases reported at hospitals	Lab Update			Hospital Update	
		Cumulative	tests performed (Cumulative)	Tested positive cases (Cumulative)	Still admitted	Discharged/Recovered Expired
AJK	15,015	15,350	1,027	119	465	28
Baluchistan	42,920	47,735	10,261	48	3,810	114
GB	11,939	13,197	1,423	48	1,062	24
Islamabad	115,791	118,179	12,395	252	6,532	122
KP	111,022	141,436	25,380	977	12,149	914
Punjab	472,565	477,107	74,202	2,523	25,162	1,673
Sindh	414,248	426,149	78,267	1,375	43,444	1,243
Total	1,183,500	1,239,153	202,955	5,342	92,624	4,118

PDSRU SINDH

Total 86,900 confirmed COVID-19 cases were reported from Sindh until June 27,2020. Most of these cases were reported from Karachi District (n=68,443) followed by District Hyderabad (n=2819), District Sukkur (n=2486) and District

Ghotki (n=2087). Age group 50-59 has the highest attack rate (422/100,000) followed by 60-69 years age group (353/100,000), 30-39 years age group (339/100,000), 70+ years' age group (337/100,000) and 40-49 years age group (313/100,000).

Figure-1: Sindh - District-wise distribution of COVID-19 cases (June 27, 2020)

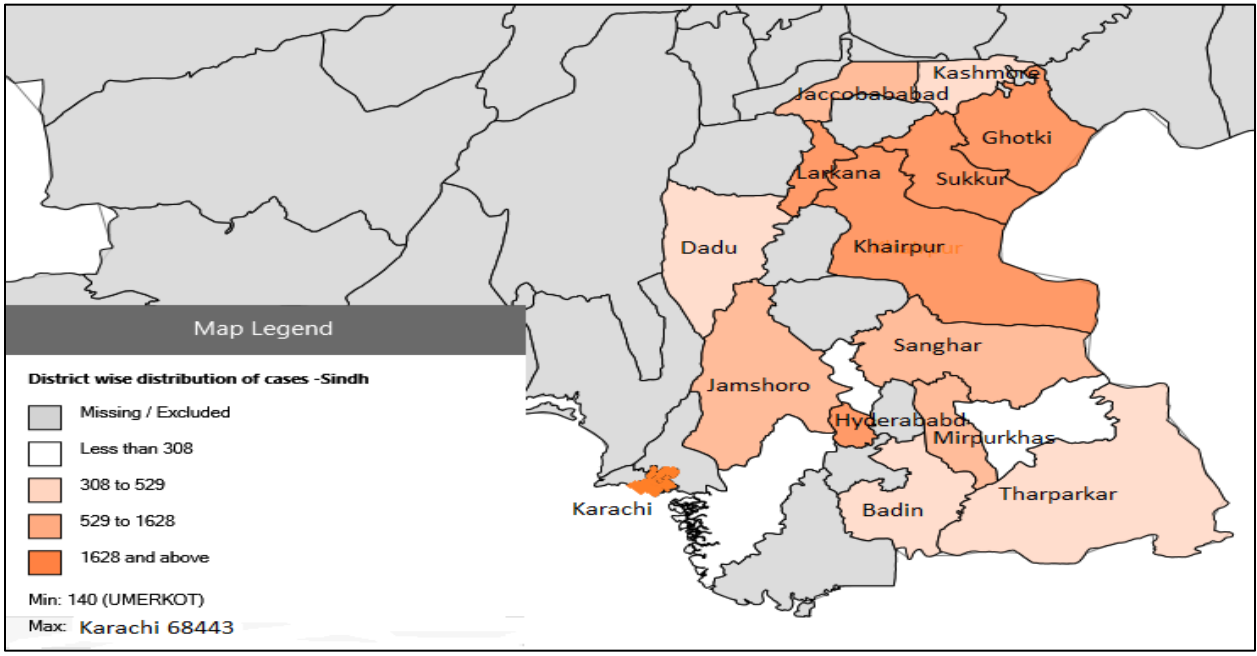
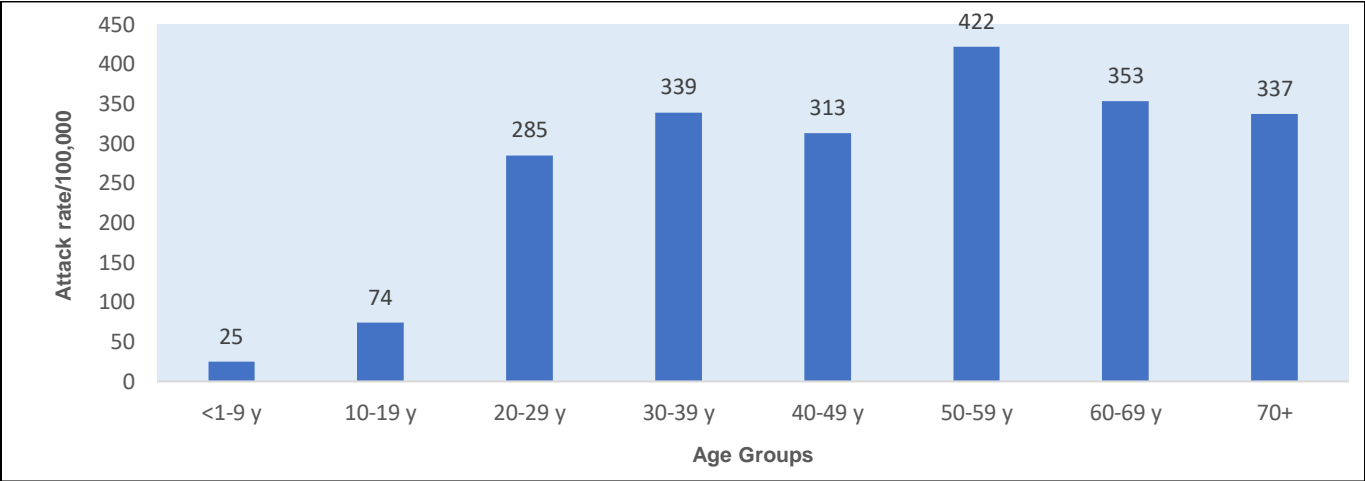


Figure-2: Sindh – Age group-wise Attack Rates /100,000 population (June 27, 2020)



PDSRU Punjab

PDSRU Punjab has reported total 472,565 suspected cases of COVID-19 and out of these 74,202 were lab confirmed COVID-19 cases up to June 27, 2020 while results of 479 suspects were awaited. District Lahore has the highest number of confirmed cases (n=145601) followed by District Rawalpindi

(n=22771), District Multan (n=19970), District Faisalabad (n=18437) and Gujranwala (n=12461) respectively. Age group 31-45 years has the highest number of cases (n=22978) followed by age group 16-30 (n=21285) and age group 46-60 years (n=15897)

Figure-3: Geographical Distribution of COVID-19 Cases in Punjab Province (Cumulative up to week 26)

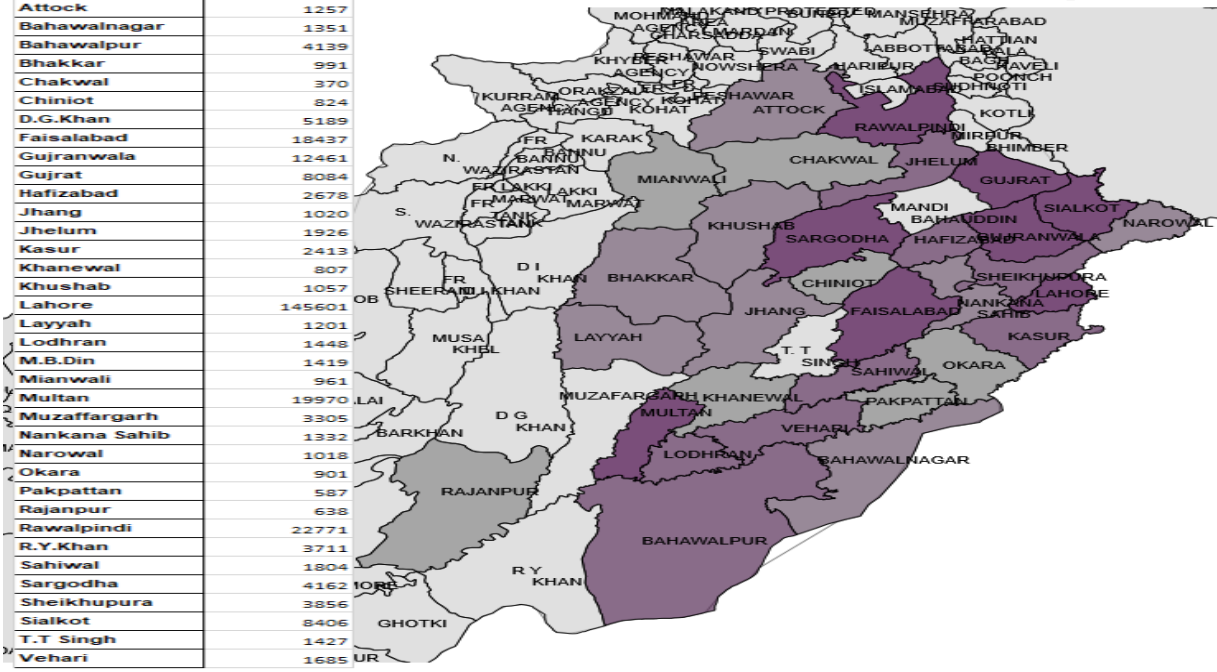
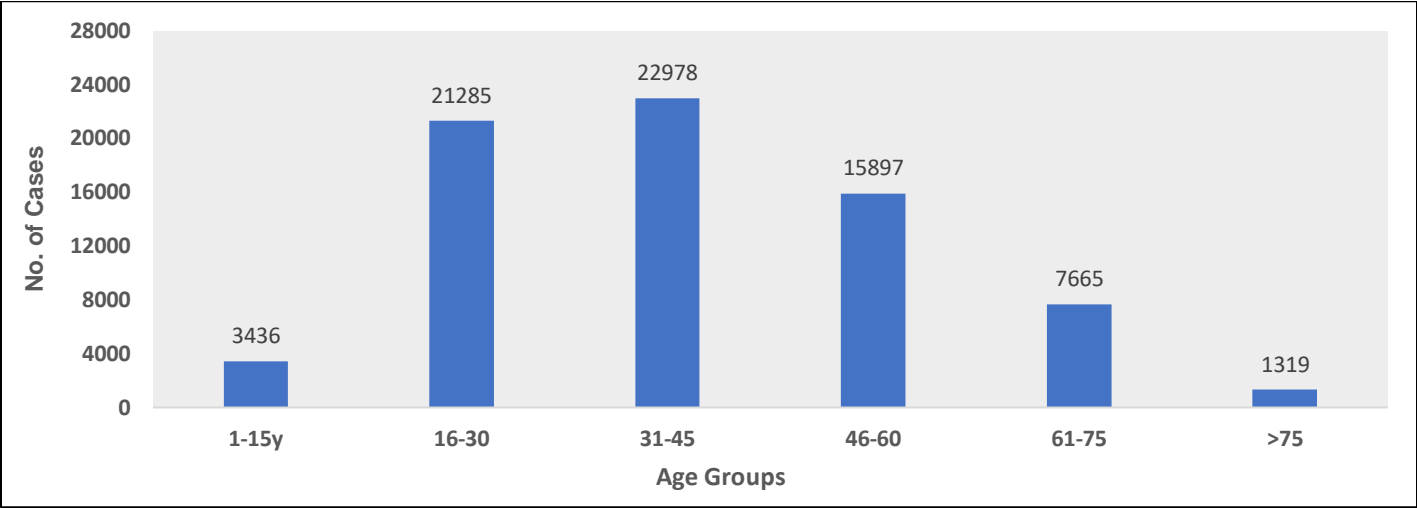


Figure-4: Age wise distribution of COVID-19 cases in Punjab up to June 27, 2020



PDSRU - Baluchistan province

The department of Health Baluchistan has reported 10,376 positive cases of COVID-19 and 116 deaths till June 27, 2020. 3,939 cases have recovered. Total 101,441 travelers were screened, 48,194 suspects were identified and based on test results, 37,818

suspects were declared negative for COVID-19. Age group 30-44 age group has the highest attack rate per 100000 Population (AR=35.07%) followed by 15-29 age group (AR=27.98%) and 45-59 age group (AR=19.16%).

Figure-5: Baluchistan - Detail of suspected and confirmed COVID-19 cases (Cumulative up to June 27, 2020)

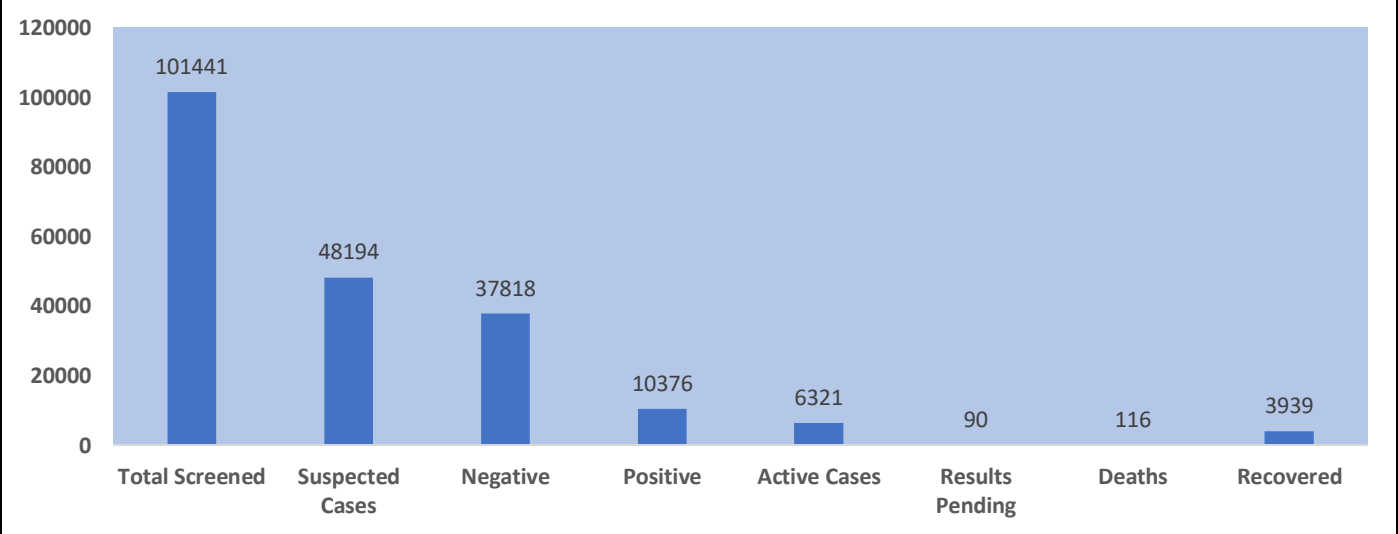
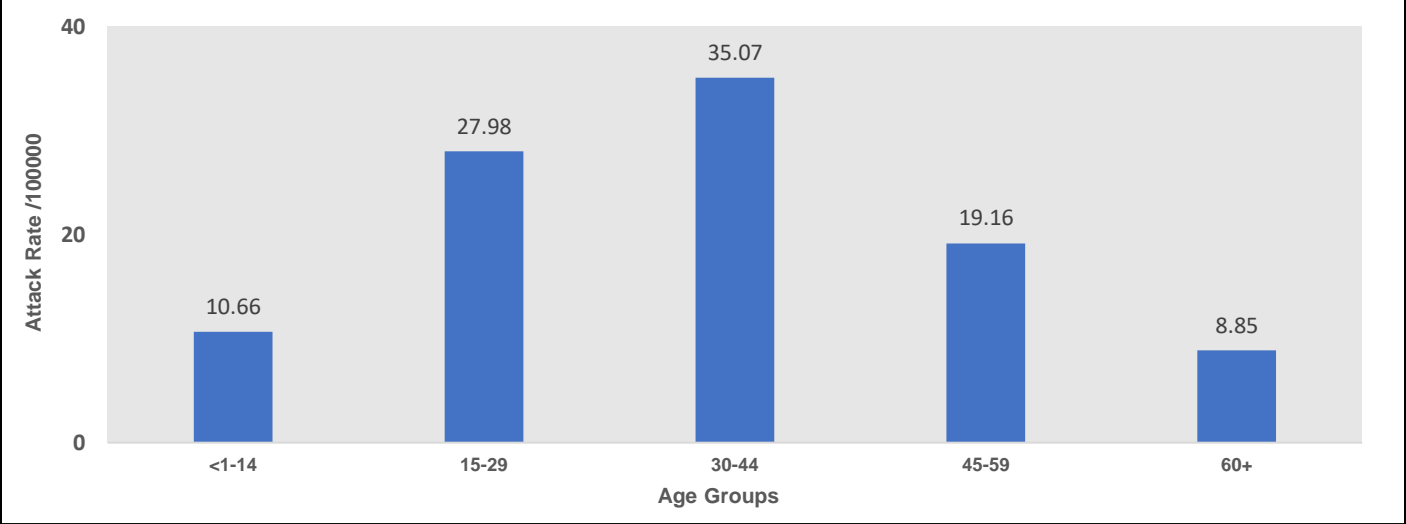


Figure-6: Baluchistan –Attack rates /100,000 population in different age groups (up to June 27, 2020)



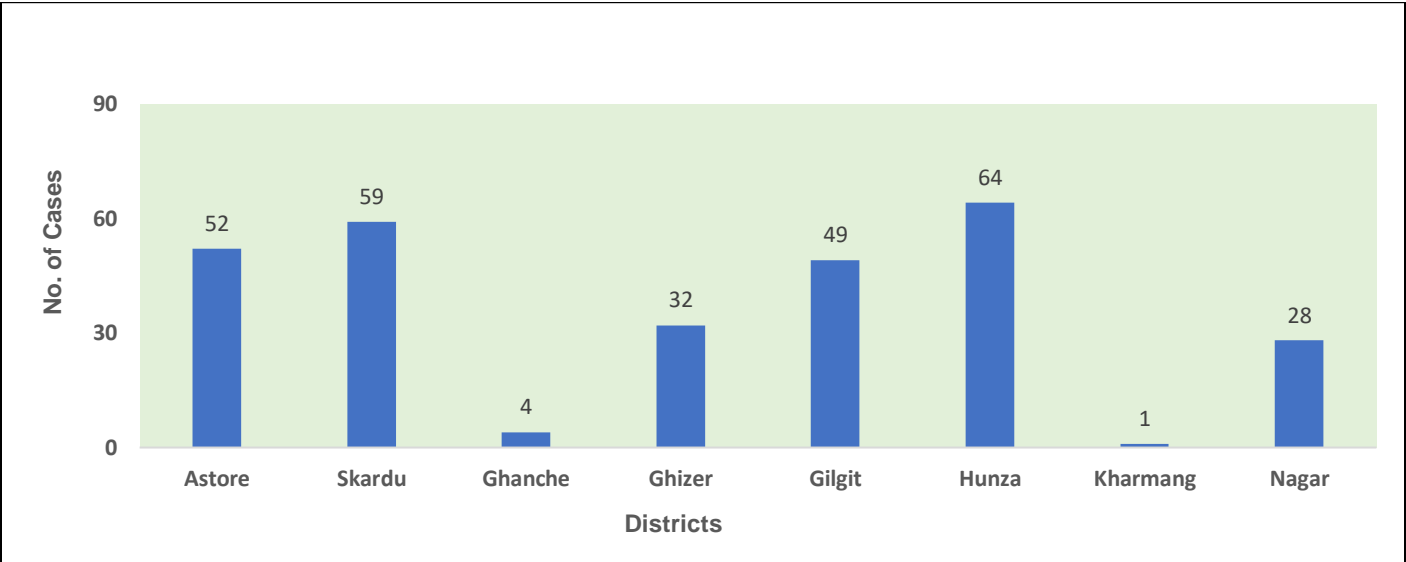
PDSRU- Gilgit-Baltistan (GB)

PDSRU GB has reported total 12,064 suspected cases of COVID-19 and out of these 319 were lab confirmed COVID-19 cases up to June 27, 2020 while results of 250 suspected cases are still awaited. 11,595 samples were processed and 10,153 suspects were declared negative for COVID-19. 1099 cases recovered from COVID-19 while 24 cases expired. District Hunza has the highest number of cases (n=64) followed by District Skardu (n=59) and District Astore (n=52).

Table -2 Detail of number of samples, confirmed Covid-19 cases & Deaths in GB up to June 27, 2020

District	Number of Samples	Negative	Total Samples Processed	Positive	Awaited	Recovered	Expired	Samples Discarded
Astore	2377	2057	2363	52	08	250	04	06
Diامر	445	370	443	29	01	42	02	01
Ghanche	982	831	878	04	34	42	01	70
Ghizer	617	561	610	32	07	17	00	00
Gilgit	3123	2582	3007	49	46	363	13	70
Hunza	1030	839	1008	64	18	104	01	04
Kharmang	223	181	198	01	11	16	00	14
Nagar	920	758	916	28	02	128	02	02
Shigar	385	327	357	01	05	29	00	23
Skardu	1962	1647	1815	59	118	108	01	29
Grand Total	12064	10153	11595	319	250	1099	24	219

Figure-7: GB-District-Wise distribution of confirmed COVID-19 cases up to June 27, 2020



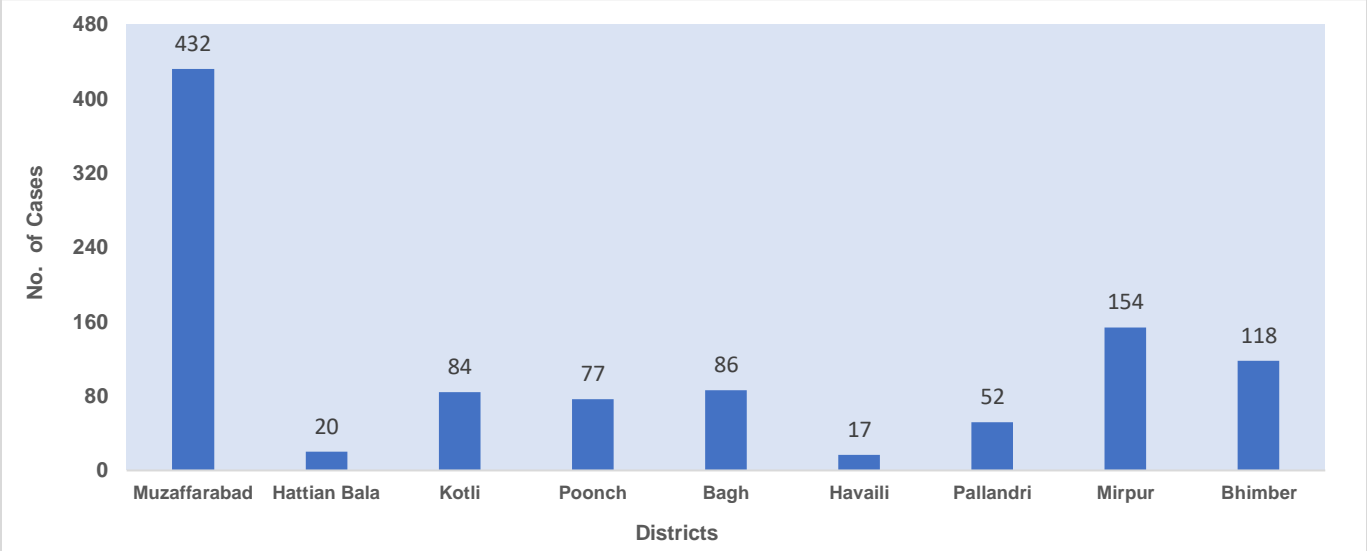
PDSRU-AJK

PDSRU AJK has reported total 15,620 suspected cases of COVID-19 and out of these 1049 were lab confirmed COVID-19 up to June 27, 2020 while results of 163 suspected cases still awaited. District Muzaffarabad has the highest number of cases (n=432) followed by District Mirpur (n=154), District Bhimber (n=118) and District Bagh (n=86).

Table -3: Distribution of suspected and confirmed Covid-19 cases in AJK up to June 27,2020

Total Suspected Cases	Lab Tests Conducted	Lab Confirmed Cases	Lab Results Awaited	Active Cases	Recovered
15,620	15,620	1049	163	501	520

Figure-8: AJK-District-Wise distribution of confirmed COVID-19 cases up to June 27, 2020



PDSRU-KPK

PDSRU KPK has reported total 96,229 suspected cases of COVID-19 and out of these 21,997 were lab confirmed COVID-19 up to June 20, 2020 while 821 patients expired. District Peshawar has the highest number of cases & deaths (n=36783) followed by

District Swat (n=9699), District Malakand (n=5092) and District Mardan (n=4648). Age group > 80 years has the highest attack rate/100,000 (AR=360.6) followed by 70-79 years age group (AR=183) and 50-59 years age group (AR=138.1).

Figure-9: Geographical Distribution of COVID-19 Cases in KPK Province (Cumulative up to Week 26)

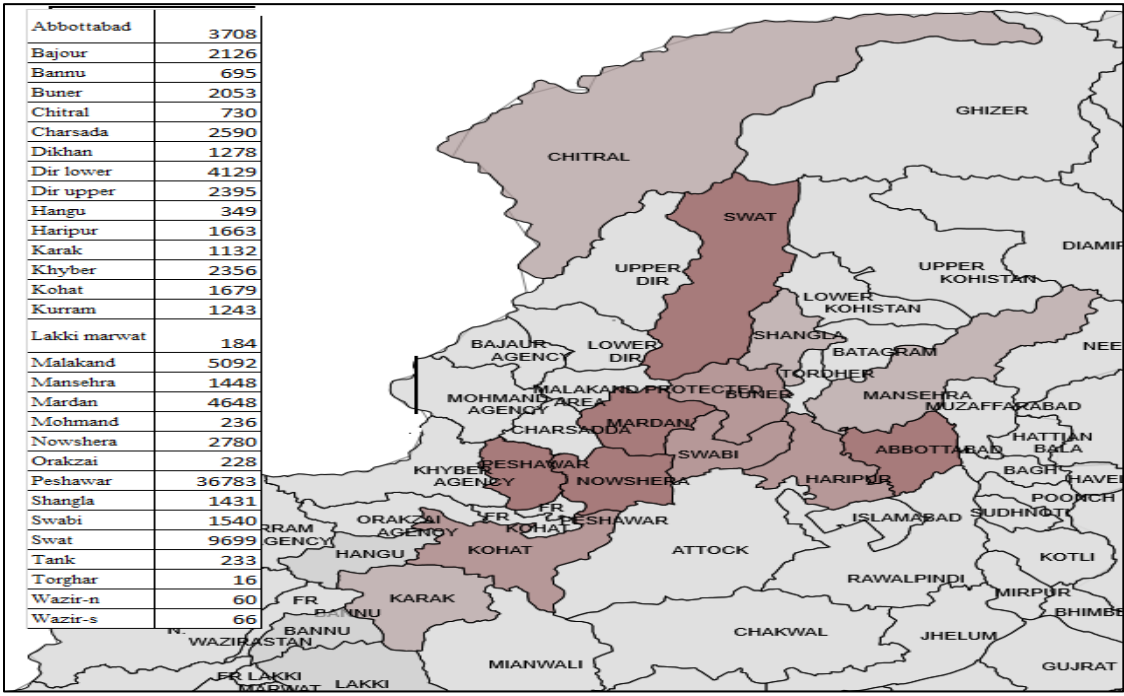
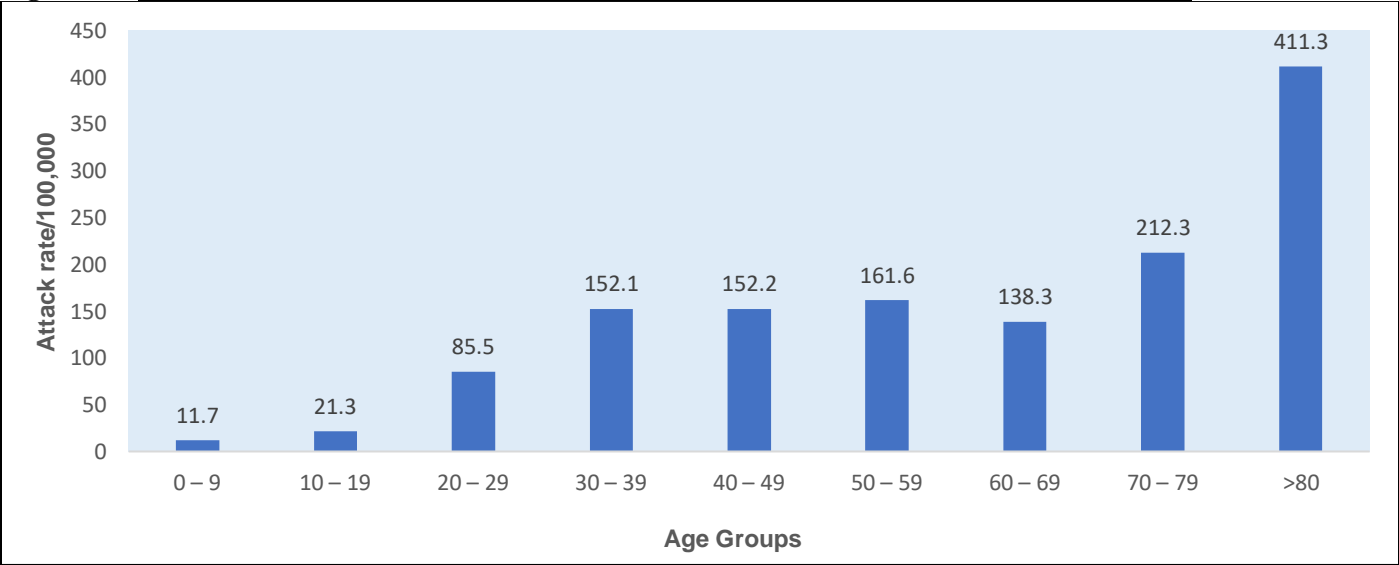


Figure 10: KPK –Attack rates /100,000 population in different age groups (up to June 27, 2020)



PDSRU Merged Areas KPK

PDSRU Merged Areas KPK has reported total 14,263 suspected cases of COVID-19 and out of these 2006 were lab confirmed COVID-19 up to June 27, 2020 while results of 110 suspected cases still awaited. District Khyber has the highest number of

confirmed COVID-19 cases (n=1019) followed by District Bajour (n=458) and District Kurram (n=378). In all the districts cases declined from week 24 onwards. Age group 26-50 years has the highest number of cases (n=1141) followed by 0-25 years age group (n=478)

Figure-11: Week-wise comparison of COVID-19 Cases - Districts of Merged Area KPK (up to Week 26)

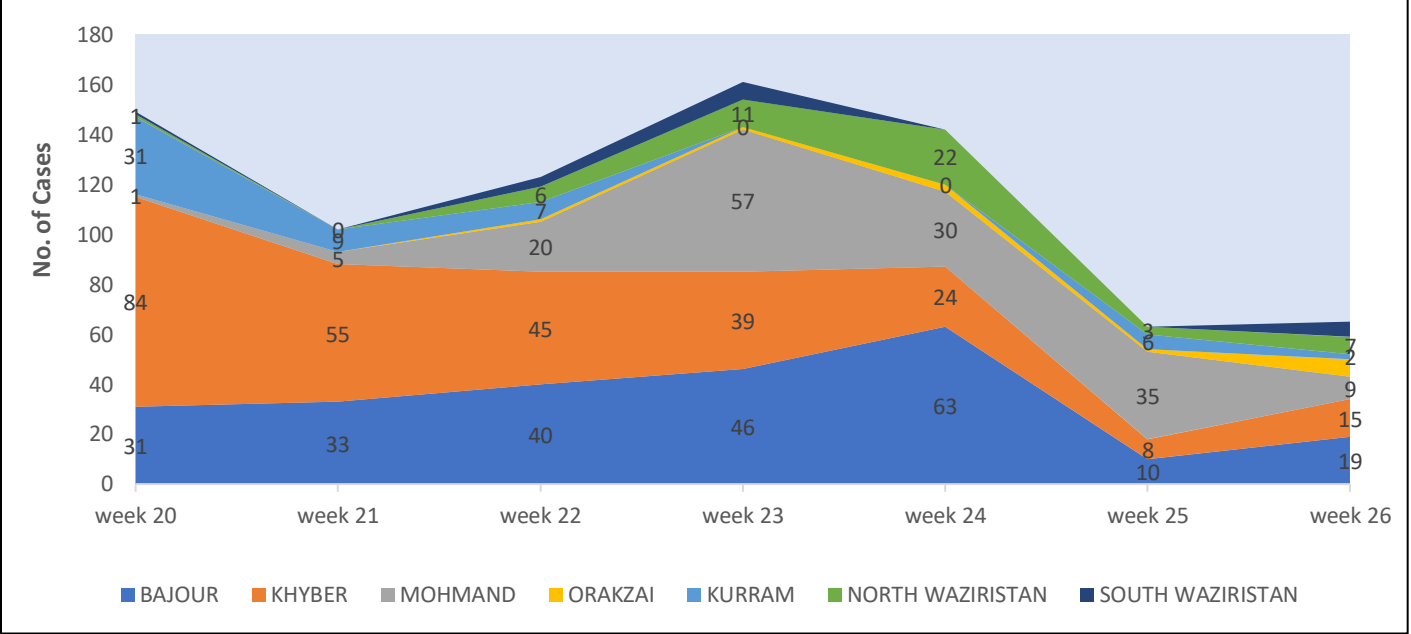
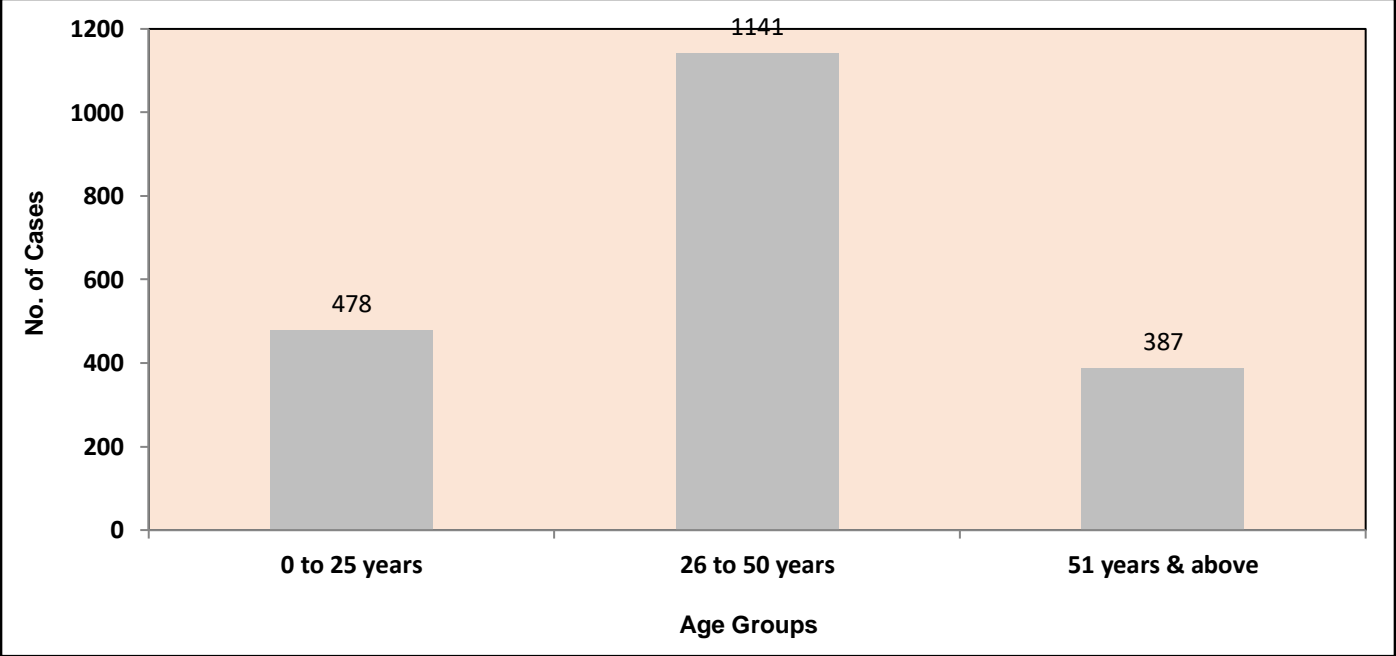


Figure-12: Age wise distribution of Covid-19 cases in Merged Areas, KP (June 27, 2020)



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 25, no suspected cases were reported.

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 25, 02 case reported from Punjab. No cases reported from, Merged Areas, ICT, Sindh, KP, AJK & Baluchistan

Diphtheria Surveillance:

During 2018 total 464 and during 2019 total 614- suspected cases of Diphtheria were reported. In week 26, 01 case was reported from KPK.

CCHF Surveillance: In 2018, total 63 CCHF (suspected and confirmed) cases were reported from DSRUs and 75 cases have been reported in 2019. 01 new case reported in this week from Punjab

Table-4: Weekly and Cumulative Diseases Updates June 27, 2020

Disease		Total Cases in 2019	June 21-27, 2020	Total Cases in 2020
1	CCHF	75	0	03
2	Varicella	1,264	0	204
3	Dengue	24,547	2	200
4	Chikungunya	0	0	0
5	Measles	6,781	65	1114
6	Diphtheria	614	1	96
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
27-06-2020	0	0	0	0	0	0	2	2
Total (2020)	03	0	0	0	02	185	10	200

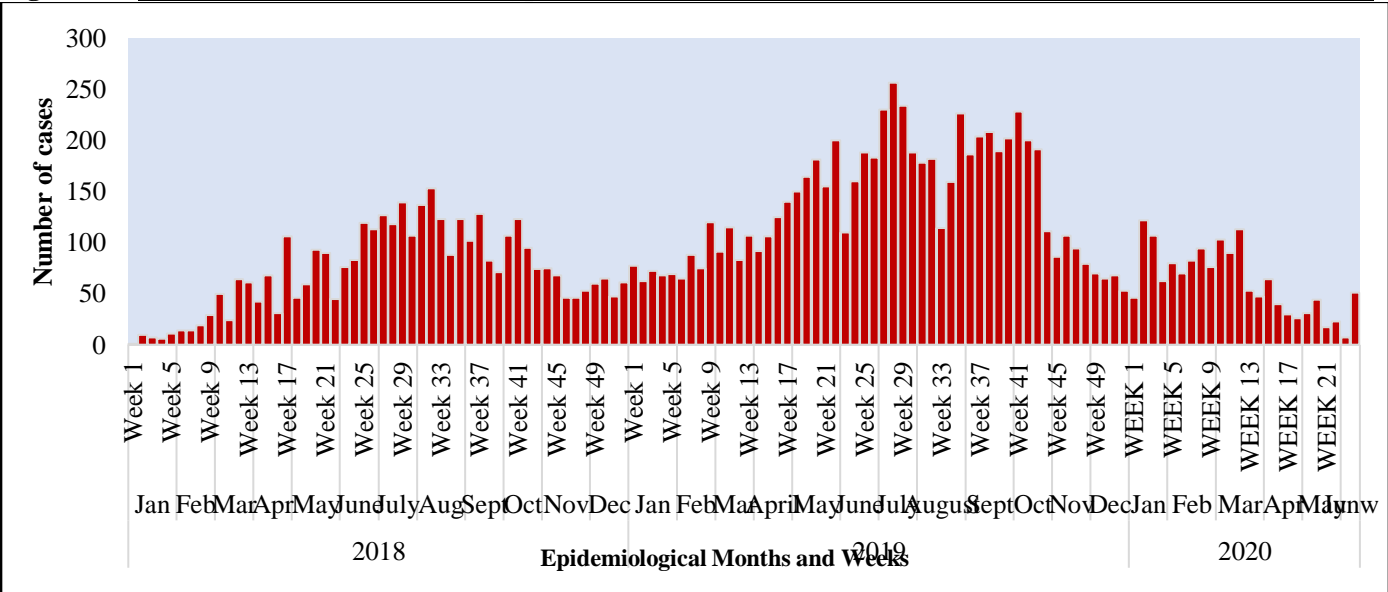
Extensive drug Resistant (XDR) Typhoid Fever Surveillance in Sindh Province

In Karachi total 12,708 cases of extensive drug resistance typhoid fever were reported from January 01, 2017 to June 27, 2020. During current week total 28 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 7774 (40%) were reported in the age group 0-4 years. The overall attack rate was 63/100,000. The age group 0-4 years was the most affected age group (attack rate 191/100,000) followed by age group 5-9 years (AR 138/100,000). Females have higher attack rate 73/100,000 compared to Males

Table-6: Number of XDR Typhoid fever cases Karachi from January 1, 2017 to June 27, 2020

Year	Year	XDR Cases
Jan to December	2017	175
Jan to December	2018	3712
Jan to December	2019	7088
January 01, to June 27 ,2020	2020	1733
Total		12708

Figure 13: Week-wise number of XDR Typhoid fever cases in Karachi, from January 1, 2017 to June 27, 2020



XDR Typhoid Surveillance Data Sindh-Province (Excluding Karachi)

Total 6349 Salmonella Typhoid cases reported from the November 2016 to June 27, 2020 from different districts of Sindh province (excluding Karachi). Among these cases 4892 were Extensive Drug Resistant cases. Out of these cases, 70.2% (n=3434) reported from District Hyderabad. The most affected age group was 0 to 4 years (n=1331) with attack rate 45.1 per/10000 population followed by 5-9 years of age group (n= 988) with attack rate 33.7/10000 population. Over all attack rate is 15.7/10000 population (n=3434).

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 – June 20, 2020	382	239	621
Current week (June 21-27, 2020)	19	10	29
Total	3434	1458	4892

Figure 14:XDR Typhoid Cases District Hyderabad Nov-2016 to June 27, 2020

