EPIDEMIOLOGICAL SITUATION COVID-19, Nepal

20 Aug 2020 T07:00:00

Ministry of Health & Population

Department of Health Services

Epidemiology & Disease Control Division (EDCD)

Teku, Kathmandu

Developed with technical assistance from World Health Organization, Nepal

Overview: Week 34

This update is based in 28936 cases and 114 deaths. All 7 provinces and 77 districts have reported one or more cases since beginning of the COVID-19 epidemic in Nepal.

Week 20 to wk 34:
- 7 provinces/77 districts reported cases during this period.
- 28825 confirmed cases, constitutes 99.6% of total confirmed cases
- Deaths from wk 20 to wk 34 : 120 (all deaths)

In last 14 days
5851 cases reported in last 14 days, constitutes 21.5 % of total confirmed cases.
Districts/Provinces: 74 districts from 7 provinces reported cases.
3 districts did not report any cases in last 14 days, which are Manang, Mustang, Solukhumbu.

On 19 Aug 2020
- 681 new cases
- All 7 provinces reported cases

Province 1	Province 2	Bagmati	Gandaki	Province 5	Karnali	Sudur Paschim
123	208	184	27	85	44	10

Core epidemiological variables under process for some cases and 6 deaths.

Note: Week runs from Sunday till Saturday . (based on reported date)
- *All data are provisional*
- *Data updated till 20 Aug 2020 Time 07:00:00*

2

Summary of laboratory-confirmed COVID-19 cases, deaths and transmission by province

Transmission classification based on WHO definitions

Reporting Province	Total confirmed cumulative cases	Total cumulative deaths	Transmission classification*	District affected (total districts)	Date of most recent case#
Province 1	2422	14	Cluster of cases	14 (14)	19/8/20
Province 2	8431	41	Cluster of cases	8 (8)	19/8/20
Bagmati	3541	24	Sporadic cases	13 (13)	19/8/20
Gandaki	1903	8	Sporadic cases	11 (11)	19/8/20
Province 5	5334	16	Cluster of cases	12 (12)	19/8/20
Karnali	2218	4	Cluster of cases	10 (10)	19/8/20
Sudurpaschhim	5087	7	Cluster of cases	9 (9)	19/8/20
National Total	28936	114	Cluster of cases	77 (77)	19/8/20

\# - Date of last case is the date of onset or date of sample collection or date of lab report based on information available.

*Case classification is based on WHO transmission classification

 No cases- provinces with no cases

 Sporadic cases- provinces with one or more cases, imported or locally detected

 Cluster of cases- provinces experiencing cases, clustered in time, geographic location and/or by common exposures

 Community transmission- experiencing larger outbreaks of local transmission defined through an assessment of factors including, but not limited to:

  - Large numbers of cases not linkable to transmission chains
  - Large numbers of cases from sentinel lab surveillance
 - Multiple unrelated clusters in several areas of the country/territory/area

- *All data are provisional*
- *Data updated till 20 Aug 2020 Time 07:00:00*

Technical Assistance from WHO ,Nepal

Time distribution

- National and provincial epi-curves. Note that Y-axis scale varies between provinces.
- Provinces showing significant increase in 7-day rolling average case incidence: Province-1, Province-2 and Bagmati.
- Provinces showing significant recent case load – Province-2, Bagmati and Province-5.
- Observed doubling time -- 3 days doubling time in Apr which gradually lengthened to 6 days, 10 Days and up to 18 days until 08 Jul. Since 8 July, until 19 Aug, (43 days) the case count has not doubled yet.

Laboratory confirmed COVID-19 cases and average number of COVID-19 cases over the last seven days, by date of onset/sample/confirmation (N= 28936)
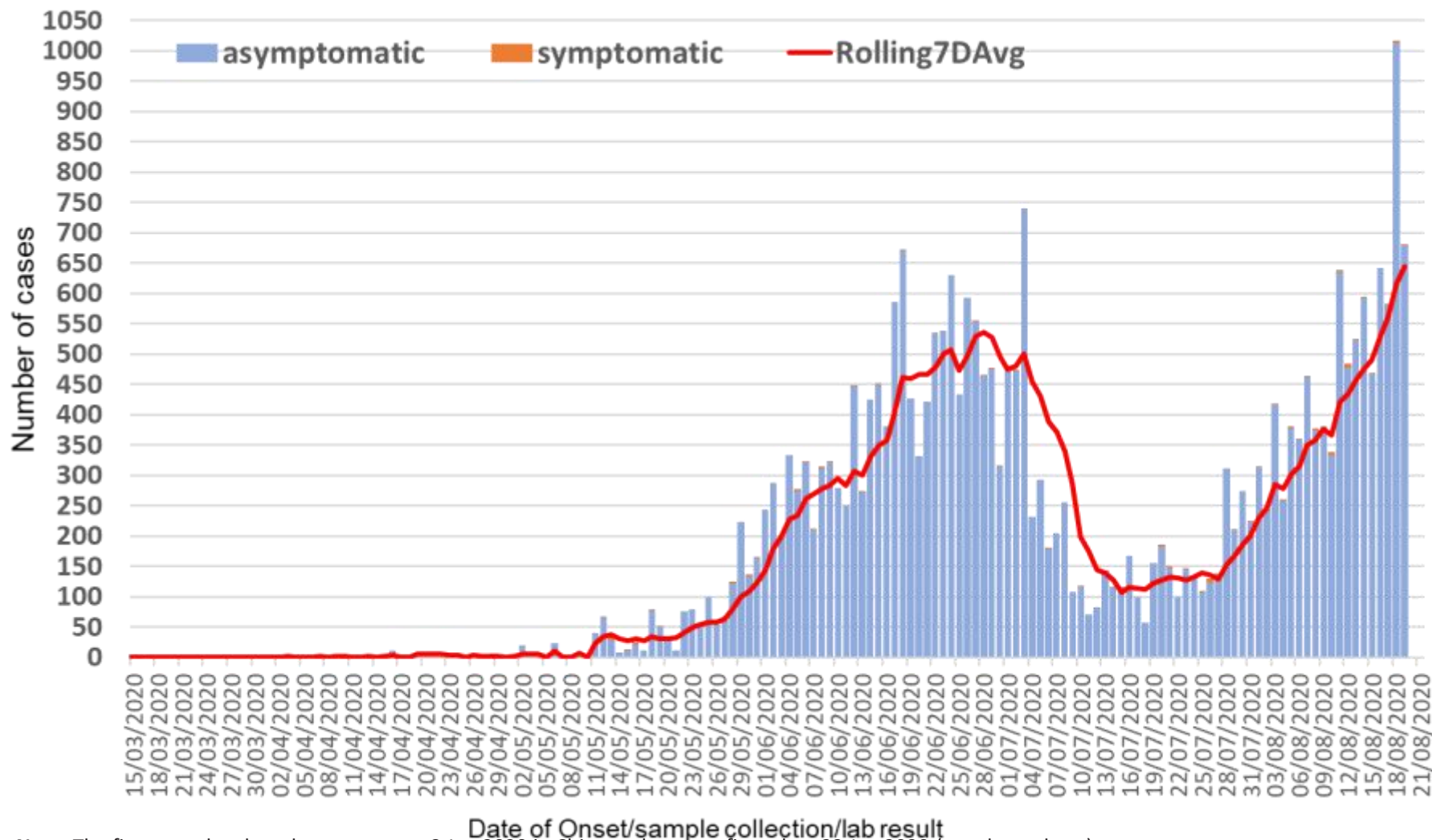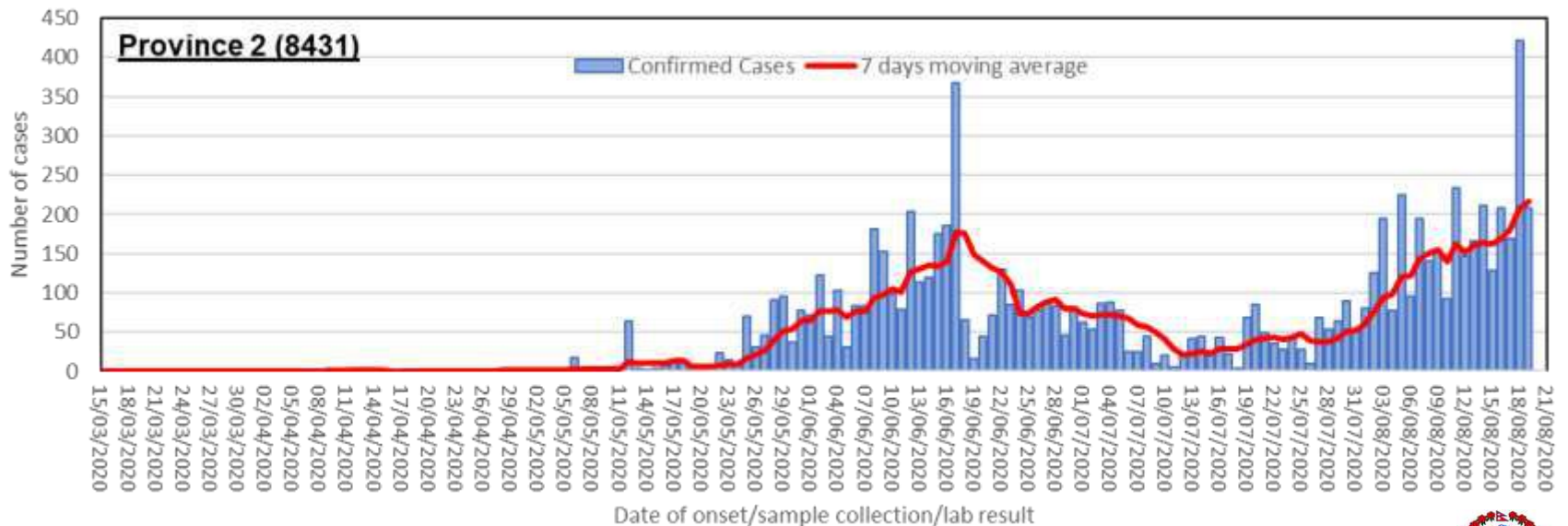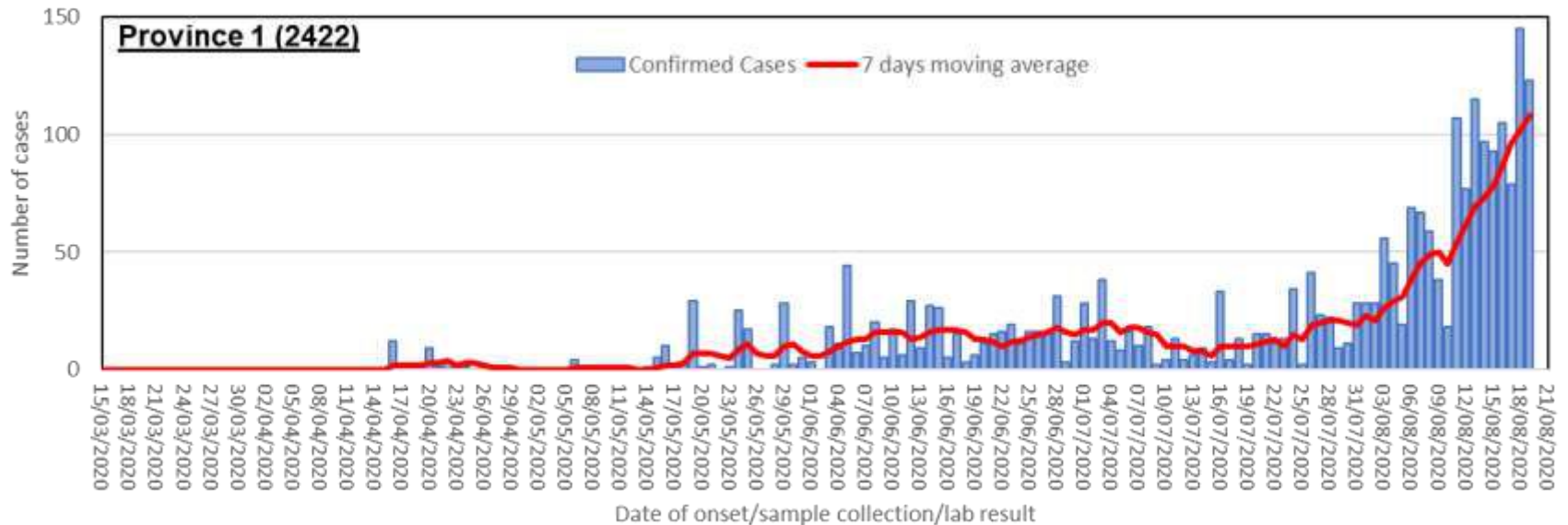

Note: The first case developed symptoms on 3 Jan 2020 in China and was confirmed on 23 Jan 2020 (not shown here).

Reference dates used in order of preference as available – Date onset/Date of sample collection/Date of confirmation.

Clinical information presented here is collected on the day of sample collection.

- *All data are provisional*
- *Data updated till 20 Aug 2020 Time 07:00:00*

Technical Assistance from WHO ,Nepal

Lab confirmed COVID-19 cases and 7-day rolling average of cases by date of onset/sample/confirmation by province – 1 and 2

- *All data are provisional*
- *Data updated till 20 Aug 2020 Time 07:00:00*

Note: The first case developed symptoms on 3 Jan 2020 in China and was confirmed on 23 Jan 2020(not shown here). Reference dates used in order of preference as available – Date onset/Date of sample collection/Date of confirmation.

Technical Assistance from WHO ,Nepal

Lab confirmed COVID-19 cases and 7-day rolling average of cases by date of onset/sample/confirmation by province – Bagmati and Gandaki

Bagmati (3541)

Confirmed Cases — 7 days moving average

Number of cases

Date of onset/sample collection/lab result

Gandaki (1903)

Confirmed Cases — 7 days moving average

Number of cases

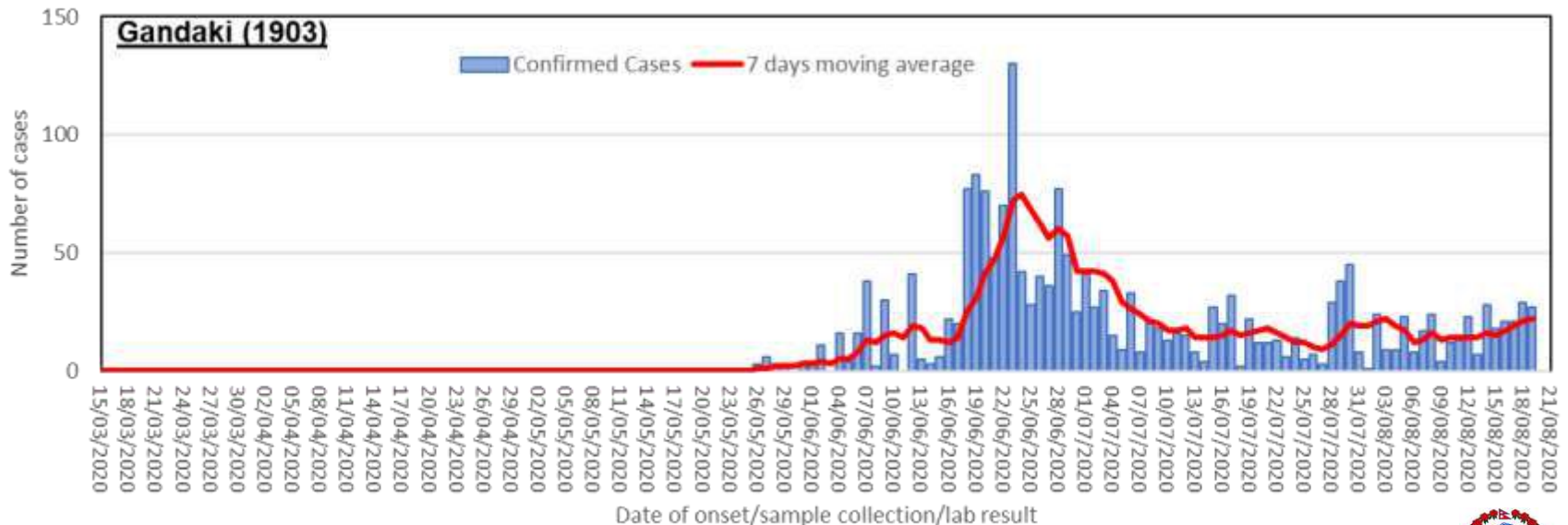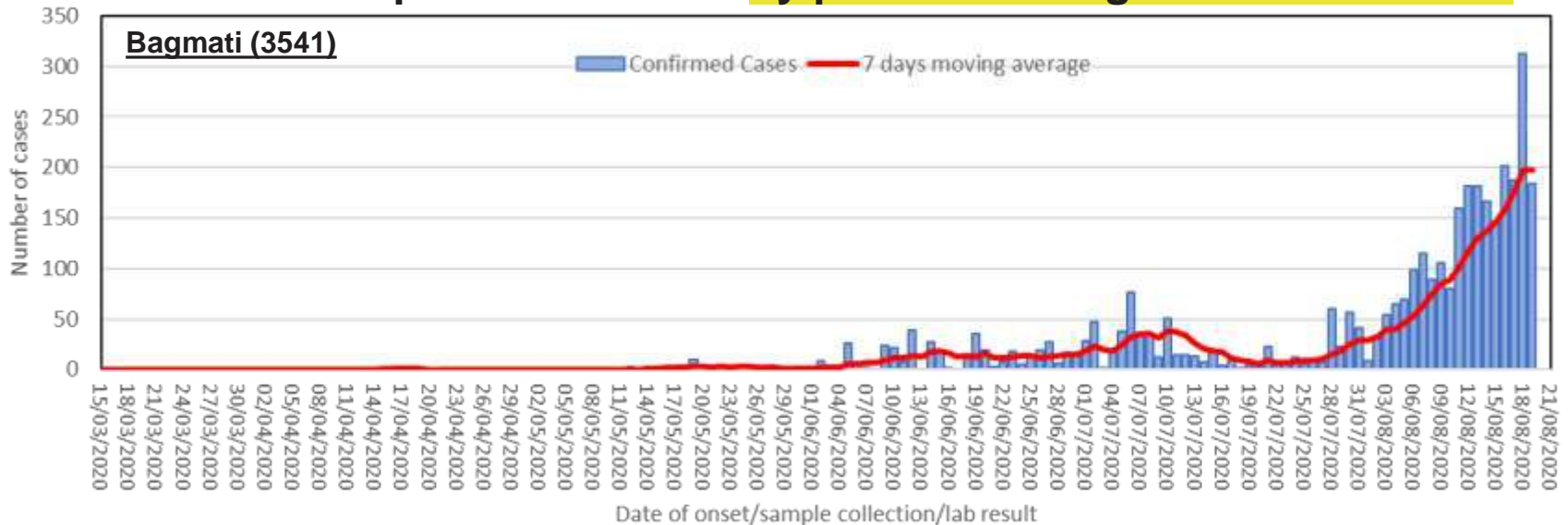Date of onset/sample collection/lab result

- *All data are provisional*
- *Data updated till 20 Aug 2020 Time 07:00:00*

Note: The first case developed symptoms on 3 Jan 2020 in China and was confirmed on 23 Jan 2020(not shown here). Reference dates used in order of preference as available – Date onset/Date of sample collection/Date of confirmation.

Technical Assistance from WHO ,Nepal

Lab confirmed COVID-19 cases and 7-day rolling average of cases by date of onset/sample/confirmation by province – 5 and Karnali

Province 5 (5334)

Confirmed Cases — 7 days moving average

Date of onset/sample collection/lab result

Karnali (2218)

Confirmed Cases — 7 days moving average
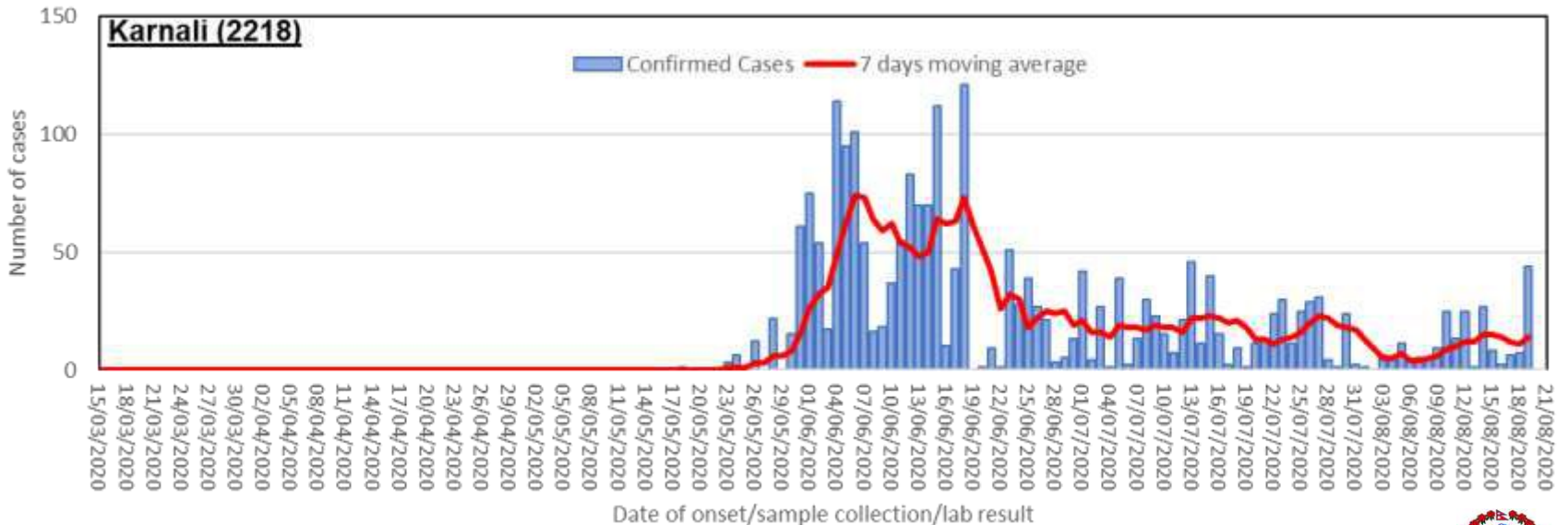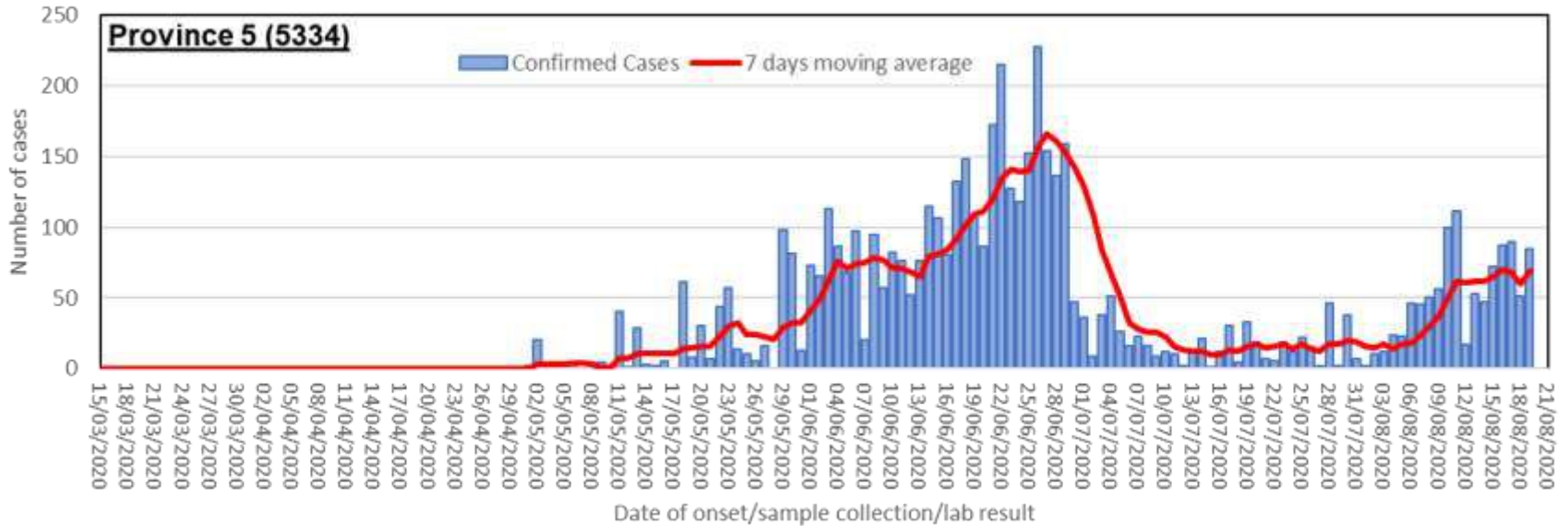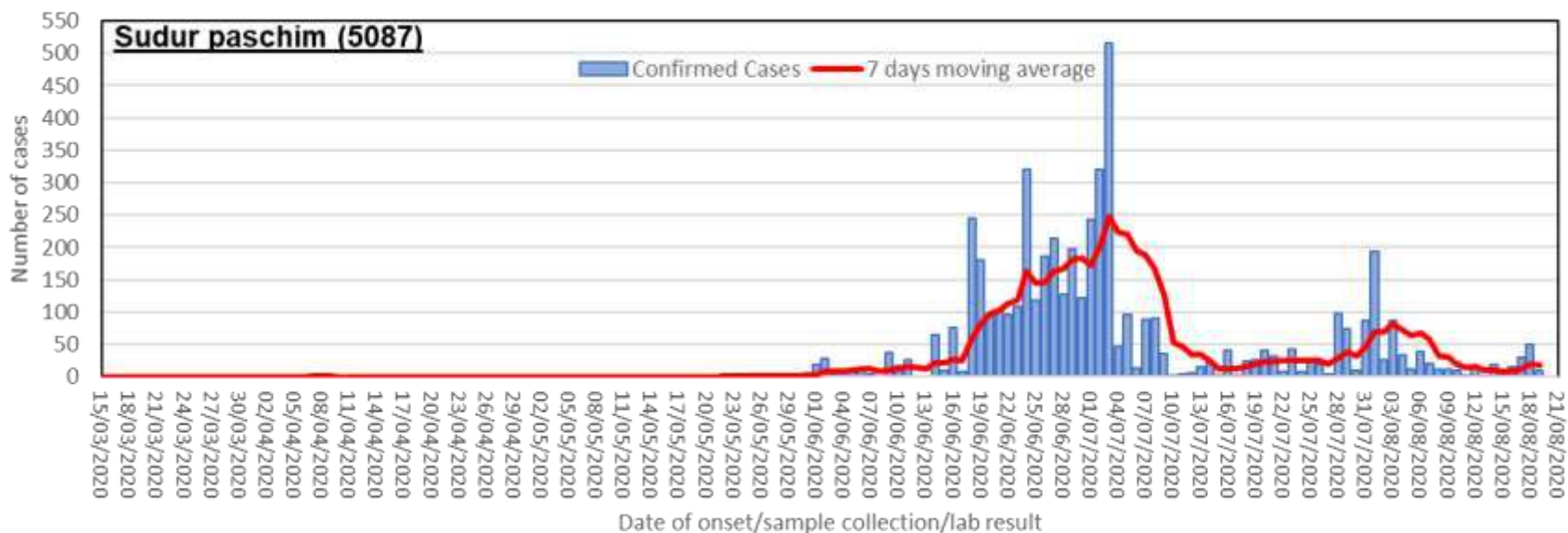
Date of onset/sample collection/lab result

- *All data are provisional*
- *Data updated till 20 Aug 2020 Time 07:00:00*

Note: The first case developed symptoms on 3 Jan 2020 in China and was confirmed on 23 Jan 2020 (not shown here). Reference dates used in order of preference as available – Date onset/Date of sample collection/Date of confirmation.

Technical Assistance from WHO ,Nepal

Lab confirmed COVID-19 cases and 7-day rolling average of cases by date of onset/sample/confirmation by province – Sudur Paschim

Sudur paschim (5087)

Confirmed Cases   7 days moving average

Number of cases

Date of onset/sample collection/lab result

Note: The first case developed symptoms on 3 Jan 2020 in China and was confirmed on 23 Jan 2020(not shown here). Reference dates used in order of preference as available – Date onset/Date of sample collection/Date of confirmation.

Technical Assistance from WHO ,Nepal

Cumulative case count of laboratory confirmed COVID-19 cases by province

Note: The first case developed symptoms on 3 Jan 2020 in China and was confirmed on 23 Jan 2020(not shown here).

Reference dates used in order of preference as available – Date onset/Date of sample collection/Date of confirmation.

- *All data are provisional*
- *Data updated till 20 Aug 2020 Time 07:00:00*

10

Cumulative case count of laboratory confirmed COVID-19 cases: log scale on base 2 (doubling time)

Number of cases

Value axis	Annotations
32768	
16384	
8192	
4096	
2048	
1024	
512	
256	
128	
64	
32	
16	
8	
4	
2	
1	

Annotation boxes:
- 20 Mar 4 cases
- 3 Apr C=9 DT 13D
- 13 Apr C=16 DT 10D
- 20 Apr C=40 DT <10D
- 2 May C=80 DT <12D
- 11-14 May C=260 DT <3 D
- 22 May C=558 DT <8D
- 28 May C=1040 DT= 5D
- 02 Jun C=2089 DT= 4D
- 09 Jun C=4084 DT= 6D
- 19 Jun C=8272 DT=10 D
- 08 Jul C=16421 DT= 18D

Data labels: 2, 4, 9, 16, 41, 80, 152, 260, 558, 1040, 2097, 4084, 8272, 16422, 28936

Date axis: 15/03/2020 ... 21/08/2020

Date of Onset/sample collection/lab result

16 March 2020
Indo-Nepal border checkpoints closure

31 May 2020
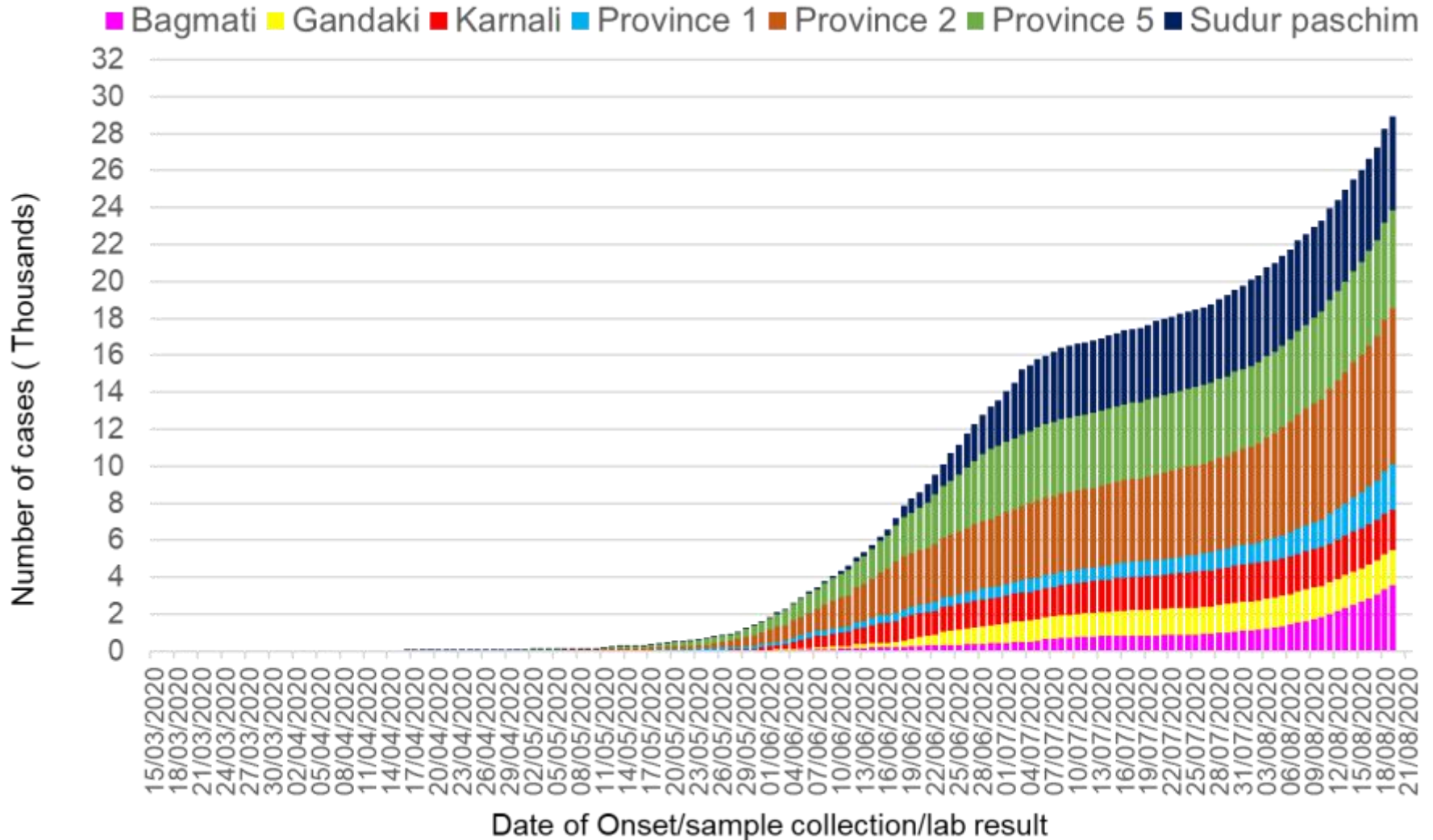India relaxed domestic travel restrictions

- *All data are provisional*
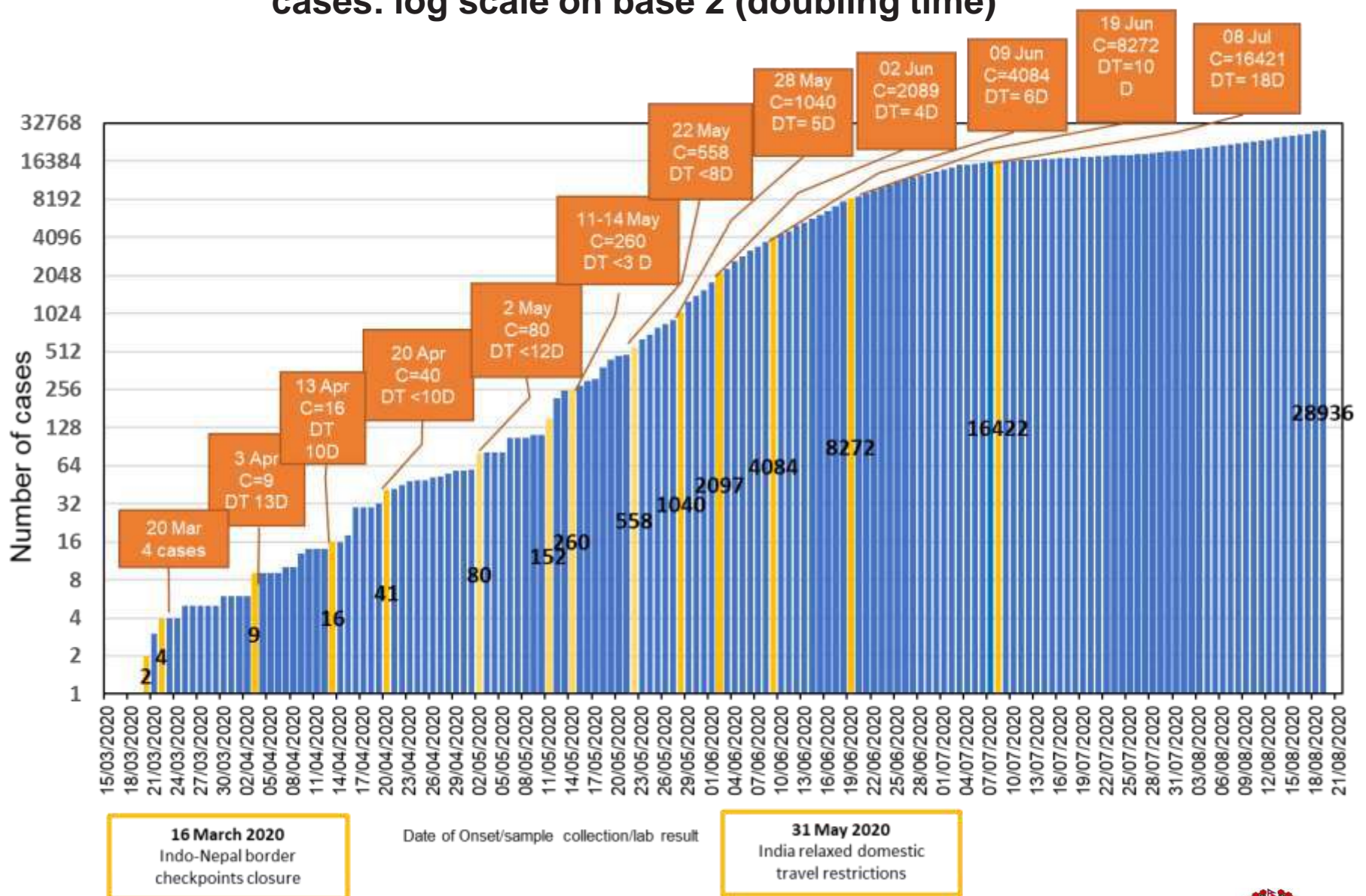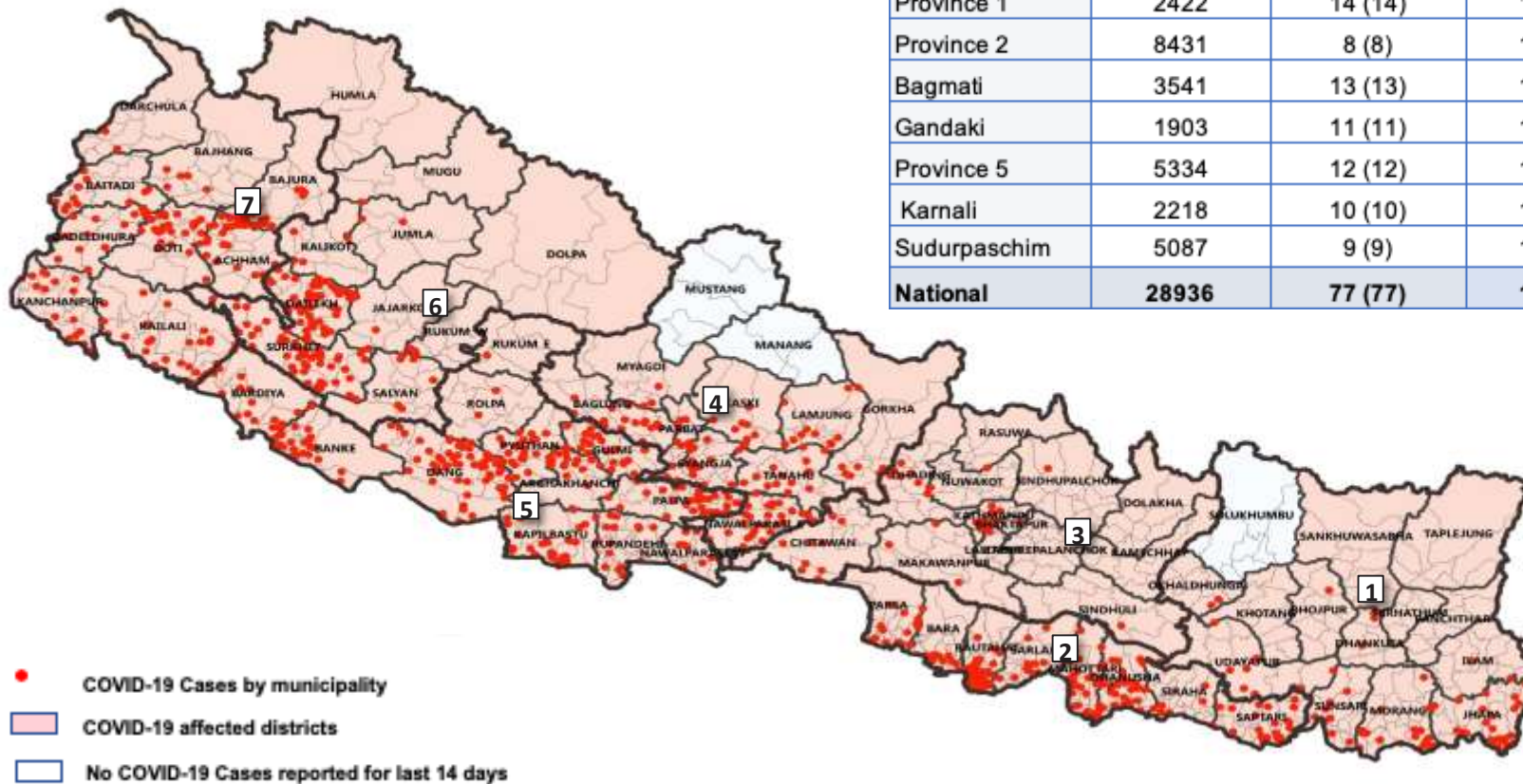- *Data updated till 20 Aug 2020 Time 07:00:00*

Note: The first case developed symptoms on 3 Jan 2020 in China and was confirmed on 23 Jan 2020 (not shown here).. Reference dates used in order of preference as available – Date onset/Date of sample collection/Date of confirmation.

7

Place distribution

Municipalities (By domicile) with reported laboratory confirmed COVID-19 cases and districts shaded by current transmission status

Province	Total confirmed cases	District affected (total districts)	Date of last case
Province 1	2422	14 (14)	19/8/20
Province 2	8431	8 (8)	19/8/20
Bagmati	3541	13 (13)	19/8/20
Gandaki	1903	11 (11)	19/8/20
Province 5	5334	12 (12)	19/8/20
Karnali	2218	10 (10)	19/8/20
Sudurpaschim	5087	9 (9)	19/8/20
National	28936	77 (77)	19/8/20

- COVID-19 Cases by municipality
- COVID-19 affected districts
- No COVID-19 Cases reported for last 14 days

1 dot = 10 cases (dot placed randomly within municipal boundary)

A district is shaded if there is at least one case in any municipality within the district confirmed within the past 14 days

The boundaries shown used in the maps in this document do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

- *All data are provisional*
- *Data updated till 20 Aug 2020 Time 07:00:00*

Technical Assistance from WHO ,Nepal

Person distribution

Distribution of COVID-19 cases by age and sex (N=28783)
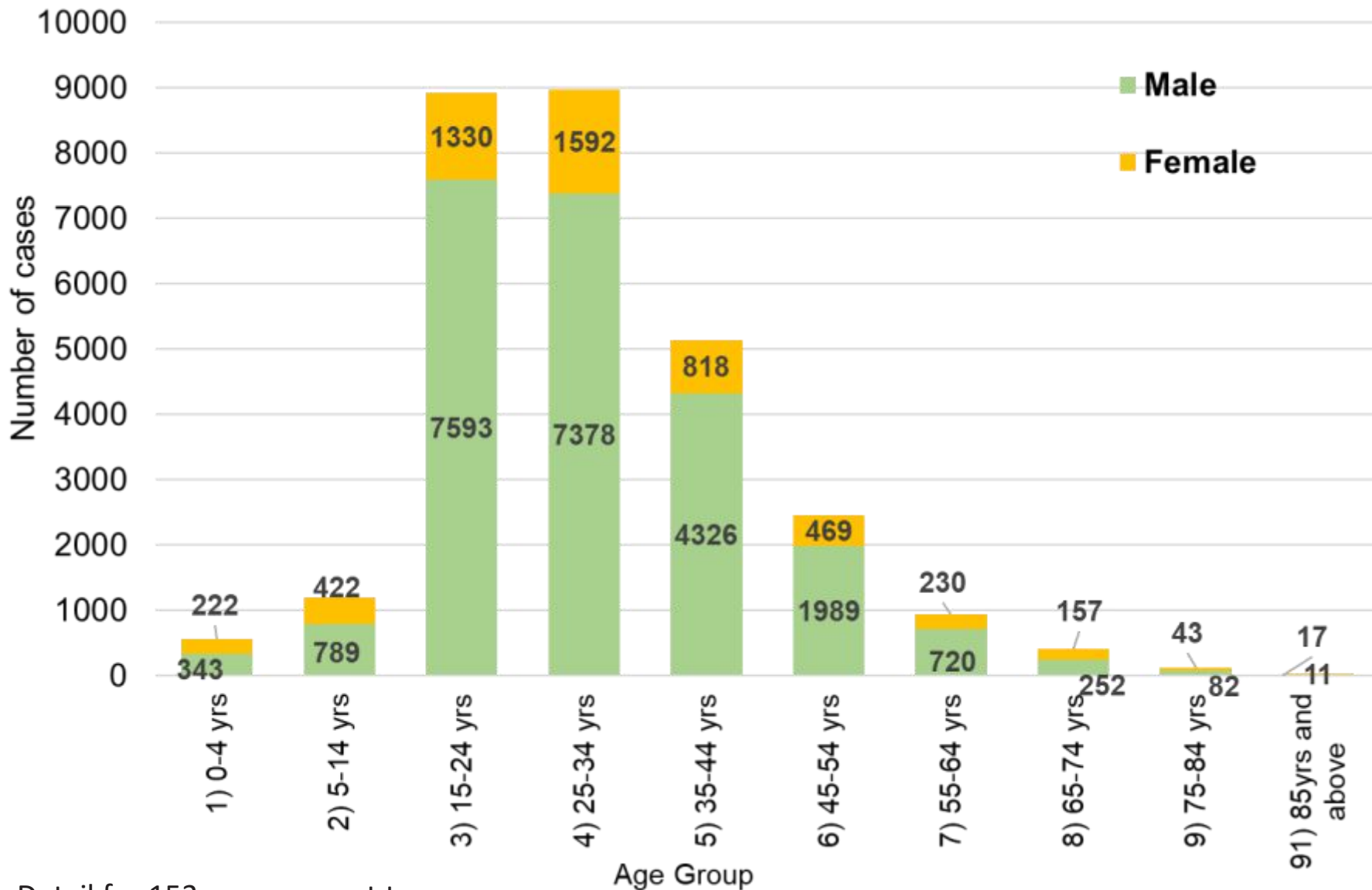
Detail for 153 cases are yet to come.

- *All data are provisional*
- *Data updated till 20 Aug 2020 Time 07:00:00*

15

Technical Assistance from WHO ,Nepal

Distribution of COVID-19 cases by age and sex by province (N= 28936)

Percentage of male among total confirmed cases: 82% (23614/28936)
Percentage of male in 15-54 year among confirmed male cases: 90% (21286/23614)

Province	Sex	Age Group											Total
		0-4 yrs	5-14 yrs	15-24 yrs	25-34 yrs	35-44 yrs	45-54 yrs	55-64 yrs	65-74 yrs	75-84 yrs	85+ yrs	Unknown	
Province 1	Female	12	27	131	158	97	65	30	22	4	1	7	554
	Male	10	61	461	611	399	179	77	22	9	2	37	1868
	Total	22	88	592	769	496	244	107	44	13	3	44	2422
Province 2	Female	33	109	238	285	187	131	61	41	11	1	6	1103
	Male	60	287	2351	2146	1394	663	250	100	28	4	45	7328
	Total	93	396	2589	2431	1581	794	311	141	39	5	51	8431
Bagmati	Female	12	33	198	384	201	112	54	46	17	3	10	1070
	Male	25	66	469	892	534	242	124	63	26	6	24	2471
	Total	37	99	667	1276	735	354	178	109	43	9	34	3541
Gandaki	Female	2	18	52	85	52	29	16	11	2	2	0	269
	Male	11	30	486	575	321	149	45	10	4	3	0	1634
	Total	13	48	538	660	373	178	61	21	6	5	0	1903
Province 5	Female	40	81	194	229	124	61	26	18	6	1	5	785
	Male	37	90	1647	1416	834	381	99	20	10	1	14	4549
	Total	77	171	1841	1645	958	442	125	38	16	2	19	5334
Karnali	Female	15	24	103	109	22	15	12	2	1	2	0	305
	Male	42	45	777	569	295	138	39	7	1	0	0	1913
	Total	57	69	880	678	317	153	51	9	2	2	0	2218
Sudurpaschim	Female	108	130	414	342	135	56	31	17	2	1	0	1236
	Male	158	210	1402	1169	549	237	86	30	4	1	5	3851
	Total	266	340	1816	1511	684	293	117	47	6	2	5	5087
National	Female	222	422	1330	1592	818	469	230	157	43	11	28	5322
	Male	343	789	7593	7378	4326	1989	720	252	82	17	125	23614
	Total	565	1211	8923	8970	5144	2458	950	409	125	28	153	28936

- *All data are provisional*
- *Data updated till 20 Aug 2020 Time 07:00:00*

Age-specific case fatality ratio and comorbidity of deaths* in COVID-19 confirmed cases (N= 28936)

Age Group	Total confirmed cases	Death (male)	Death (female)	Deaths with any known comorbid condition	Age specific case fatality ratio (%)
0-4 yrs	565	1	1	1	0.35
5-14 yrs	1211	1	0	0	0.08
15-24 yrs	8923	3	3	4	0.07
25-34 yrs	8970	6	2	4	0.09
35-44 yrs	5144	13	3	6	0.31
45-54 yrs	2458	16	6	17	0.9
55-64 yrs	950	20	2	18	2.32
65-74 yrs	409	14	9	17	5.62
75-84 yrs	125	8	1	8	7.2
85+ yrs	28	4	1	2	17.86
Unknown	153	0	0	0	0
National	**28936**	**86**	**28**	**77**	**0.39**

COVID-19 positive lab result is temporally associated with death; causal association under investigation.

* Source: https://covid19.mohp.gov.np/#/

- *All data are provisional*
- *Data updated till 20 Aug 2020 Time 07:00:00*

Technical Assistance from WHO ,Nepal

Distribution symptomatic/asymptomatic COVID-19 cases at presentation (N=28936)

Age Group	Total confirmed cases	Asymptomatic	Symptomatic (n)	Symptomatic (%)
0-4 yrs	565	563	2	0.4
5-14 yrs	1211	1209	2	0.2
15-24 yrs	8923	8912	11	0.1
25-34 yrs	8970	8944	26	0.3
35-44 yrs	5144	5126	18	0.3
45-54 yrs	2458	2441	17	0.7
55-64 yrs	950	931	19	2.0
65-74 yrs	409	389	20	4.9
75-84 yrs	125	119	6	4.8
85+ yrs	28	25	3	10.7
Unknown	153	153	0	0.0
National	**28936**	**28812**	**124**	**0.4**

- *All data are provisional*
- *Data updated till 20 Aug 2020 Time 07:00:00*

Technical Assistance from WHO ,Nepal
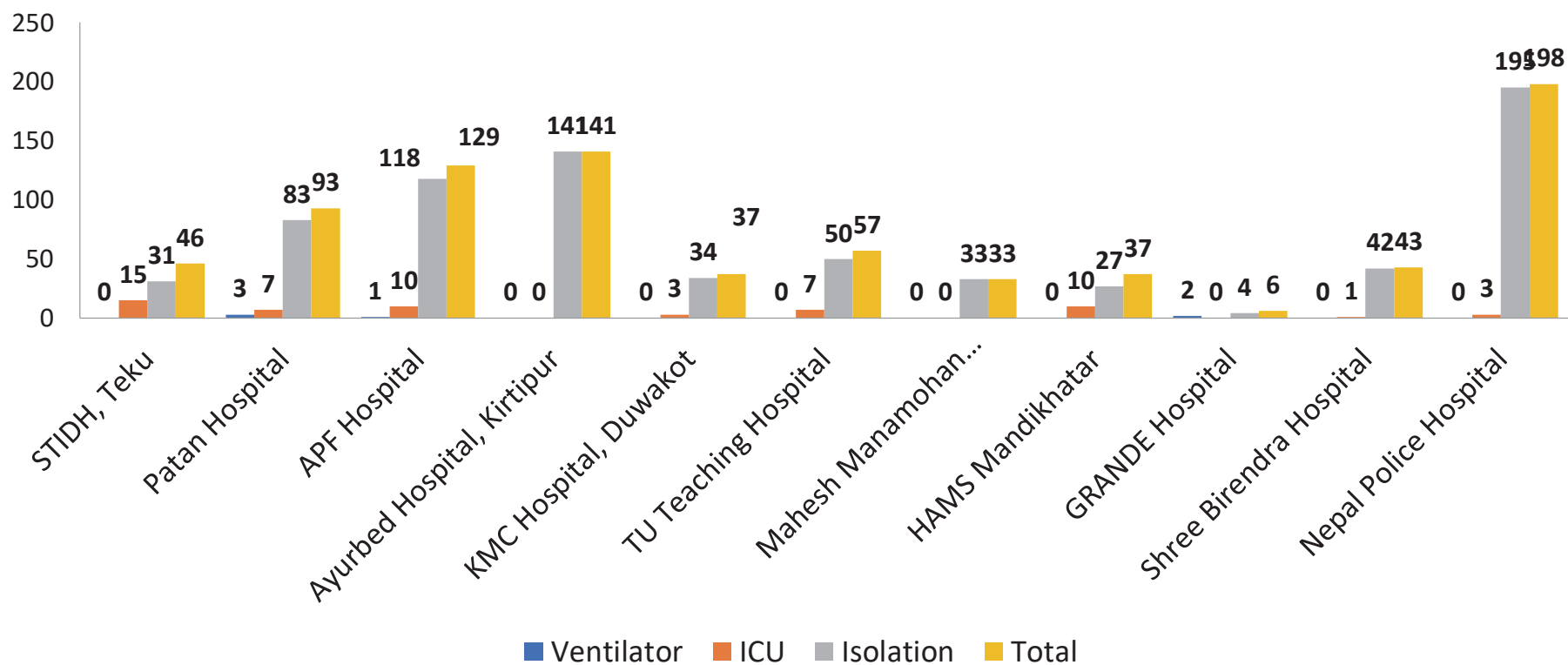
Scenario of Kathmandu Valley

Positive cases trend in Kathmandu Valley
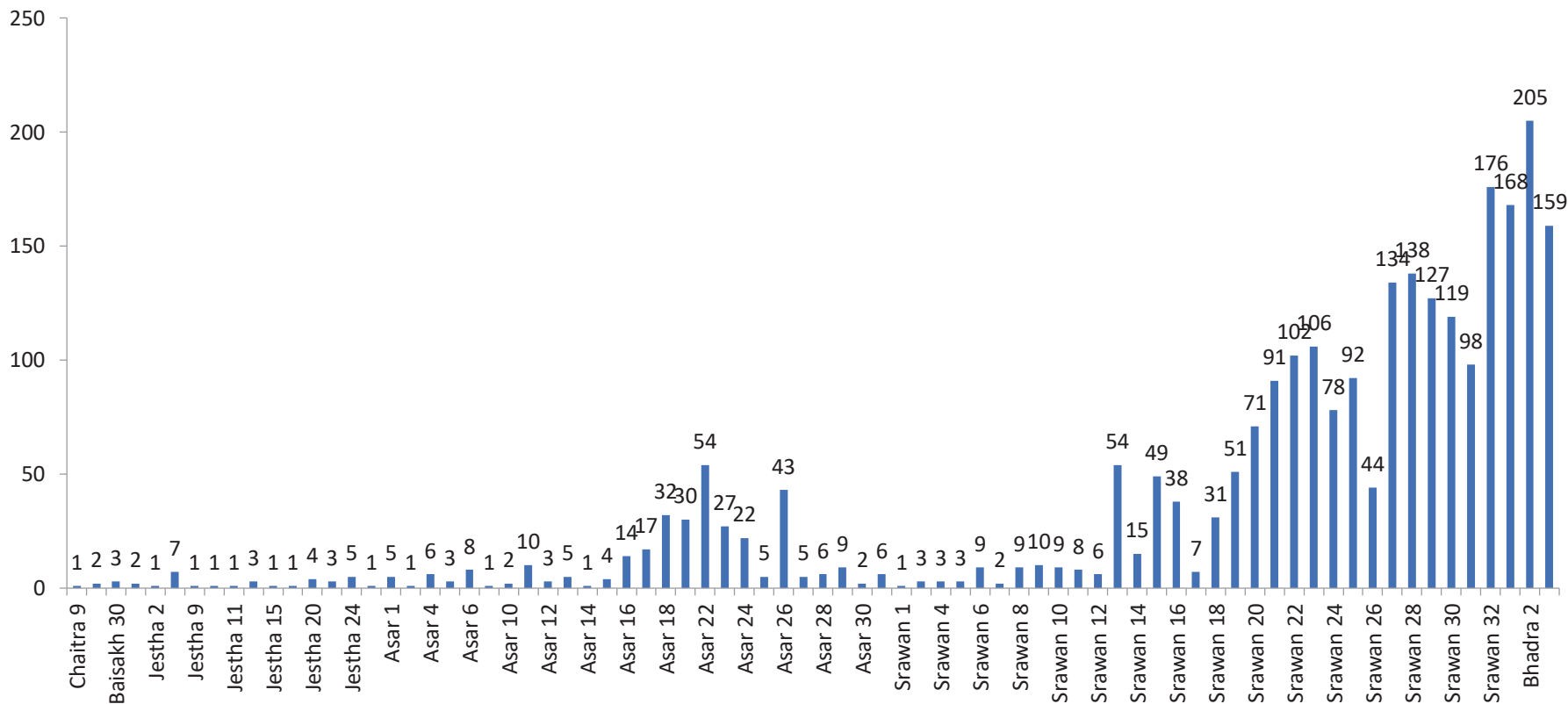
- *All data are provisional*
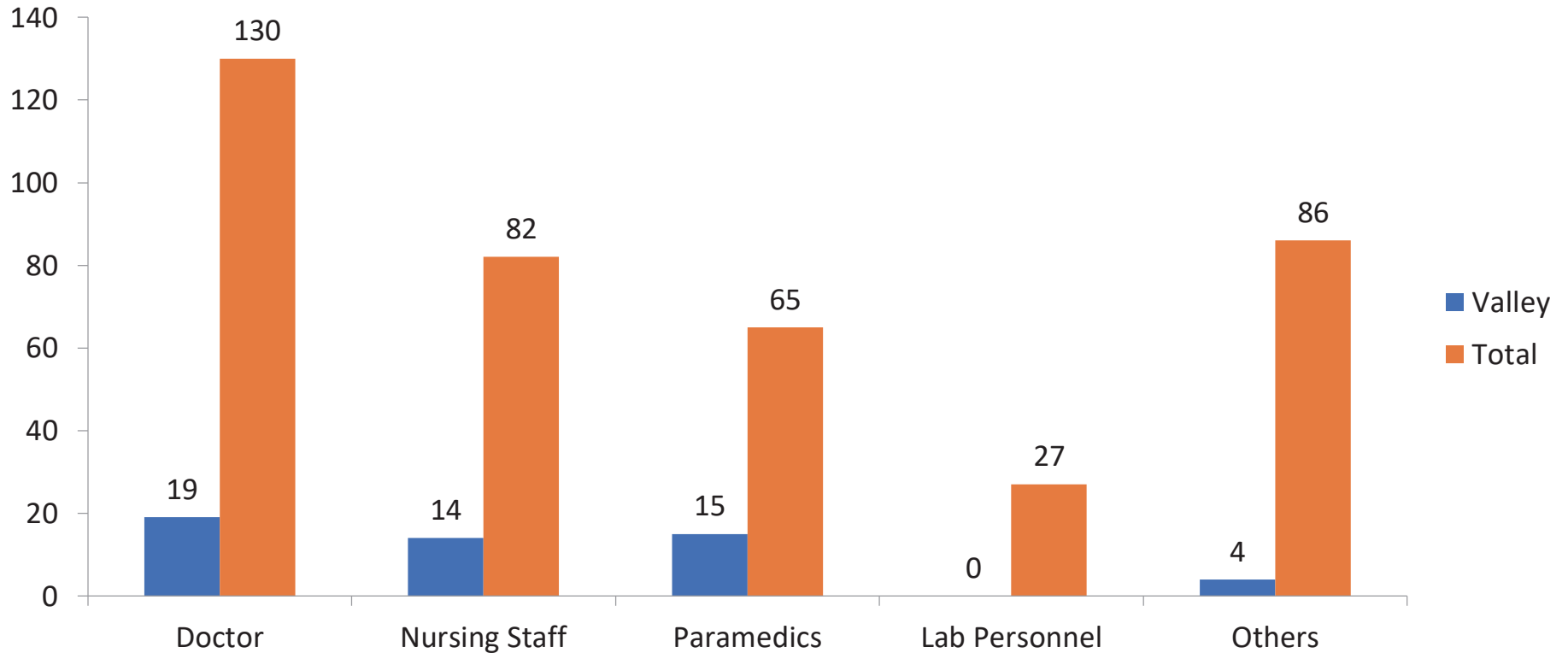- *Data updated till 20 Aug 2020 Time 07:00:00*

Status of positive case in Kathmandu Valley (Bhadra 2)

- *All data are provisional*
- *Data updated till 20 Aug 2020 Time 07:00:00*

Status of Health Worker

- *All data are provisional*
- *Data updated till 20 Aug 2020 Time 07:00:00*