

# EPIDEMIOLOGICAL SITUATION

# COVID-19, Nepal

21 December 2021 TO 19:00:00



Ministry of Health & Population  
Department of Health Services

**Epidemiology & Disease Control Division (EDCD)**

Teku, Kathmandu

**Developed with technical assistance from World Health Organization, Nepal**

Technical Assistance from WHO, Nepal

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Department of Health Services  
**Epidemiology & Disease Control Division**



# Overview: Week 51 2021

**Total of 921293 ( 826206 RT-PCR and 95087 Antigen RDT) confirmed cases and 11529 deaths**

**Since 15 March 2021**

- **646062** total confirmed cases
  - **550975** confirmed by RT-PCR cases, **95087** confirmed by Antigen RDT cases

**In last 14 days**

- **3928** (data as in HEOC Sitrep on **21 December 2021**) cases reported in last **14** days, constitutes **0.4** % of total laboratory confirmed cases.
- Districts / Provinces: **72** districts from **7** provinces reported cases.
- **5** districts did not report any case within 14 days which is Taplejung, Dolpa, Humla and Rukum\_E.

**On 21 December 2021**

- **267** total confirmed cases
  - **252** by RT-PCR cases, **15** by Antigen RDT cases

Province	RT-PCR test	Antigen RDT test	Total	Province %
Bagmati	127	1	128	42.2
Gandaki	29	1	30	9.9
Karnali	1		1	0.3
Lumbini	35	2	37	12.2
Province 1	80	6	86	28.4
Province 2	13		13	4.3
Sudur Paschim	6	2	8	2.6
<b>Total</b>	<b>291</b>	<b>12</b>	<b>303</b>	<b>100.0</b>

Notes:

1. Antigen RDT Test results as per IMU/IHMIS data **15** form HEOC Sitrep and IMU data available with provincial breakup for **12**

2 : Week computed Monday till Sunday (based on date of reporting)

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## Confirmed COVID-19 cases, deaths by province

Province	Total confirmed cumulative cases RT-PCR test	Total Confirmed cumulative cases Antigen RDT test	Total confirmed cumulative cases	% of total confirmed cumulative cases	Total cumulative deaths	Transmission classification*	Total confirmed cases in last 14 days Antigen RDT test	Total confirmed cases in last 14 days RT-PCR test	Total confirmed cases in last 14 days	% of total confirmed cumulative cases in last 14 days	Total Deaths in last 14 days
Province 1	111675	25687	137362	15.09%	1668	CT	100	308	408	21.89%	9
Bagmati	422942	19968	442910	48.65%	4932	CT	91	2193	2284	69.88%	21
Gandaki	81859	16756	98615	10.83%	1366	CT	59	386	445	23.88%	11
Lumbini	100338	15659	115997	12.74%	1818	CT	234	226	460	19.81%	2
Karnali	22742	3178	25920	2.85%	484	CT	9	28	37	14.77%	2
Sudur Paschim	39304	2459	41763	4.59%	491	CT	20	79	99	16.06%	2
Province 2	47346	495	47841	5.25%	770	CT	2	156	158	18.02%	1
<b>Total</b>	<b>826206</b>	<b>84202</b>	<b>910408</b>	<b>100.00%</b>	<b>11529</b>	<b>CT</b>	<b>515</b>	<b>3376</b>	<b>3891</b>	<b>100.00%</b>	<b>46</b>

Notes: 1.The source for case data used in this update is from RT- PCR test positivity reported by laboratories from various locations across Nepal, as shared by HEOC, Sitrep; and IMU/IHIMS.

2.Case data is screened and cleaned by our data team for double entry, wrong entry and manual errors such as cities name in place of districts, district name in place of province etc.

3.Whereas the test positivity rate is calculated based on the test positivity reported in Sitrep for RT-PCR which may or may not be scrutinized or cleaned the same way and mark the cases on location of the laboratories rather then their place of stay.

\*Total reported in HEOC Sitrep of 21 December 2021 95087 ; IMU 84202 reported of them. \*\*CT=Community transmission

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# Time Distribution

National and provincial epi-curves. Note that Y-axis scale varies between provinces

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# RT-PCR confirmed COVID-19 cases and average number of COVID-19 cases over the last seven days, by date of onset/sample/confirmation (N= 826206 )

Cases and Rolling average by Date of Report

● Cases ● Rolling average

10000

8000

6000

4000

2000

0

Cases

Apr 2020

Jul 2020

Oct 2020

Jan 2021

Apr 2021

Jul 2021

Oct 2021

Jan 2022

Date of Report

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.

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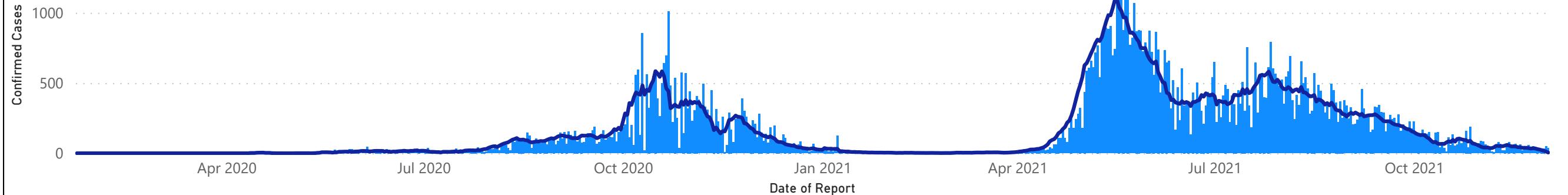


# Daily update on Covid-19 in Province 1: Trend of Cases, 7 days Rolling Average, Weekly Cases and Deaths and Test Positivity Rate

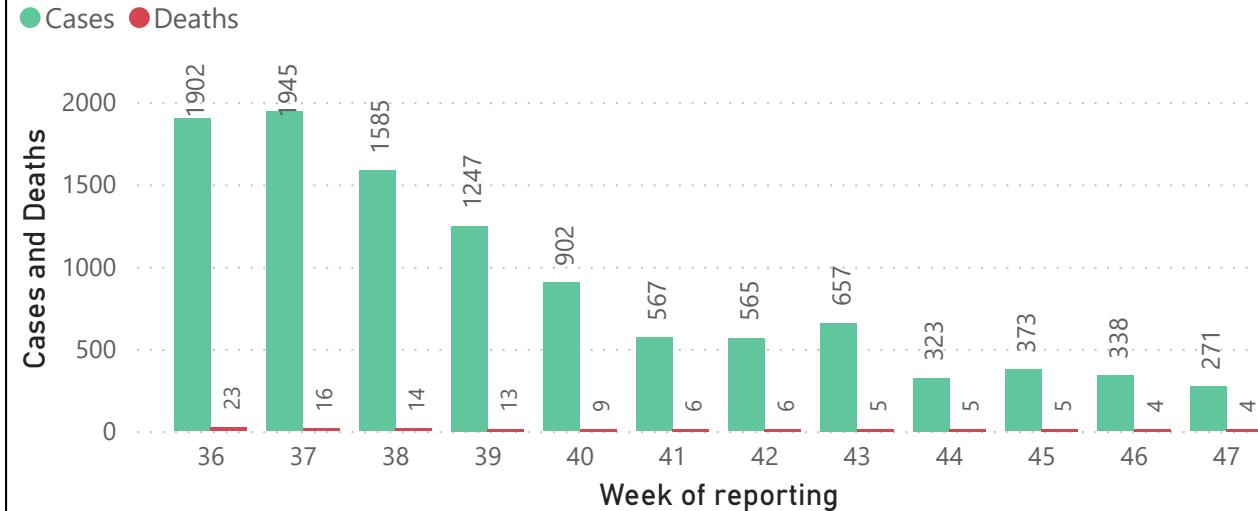
Confirmed Cases and 7 days rolling average by Date of Report

**Province 1 111675**

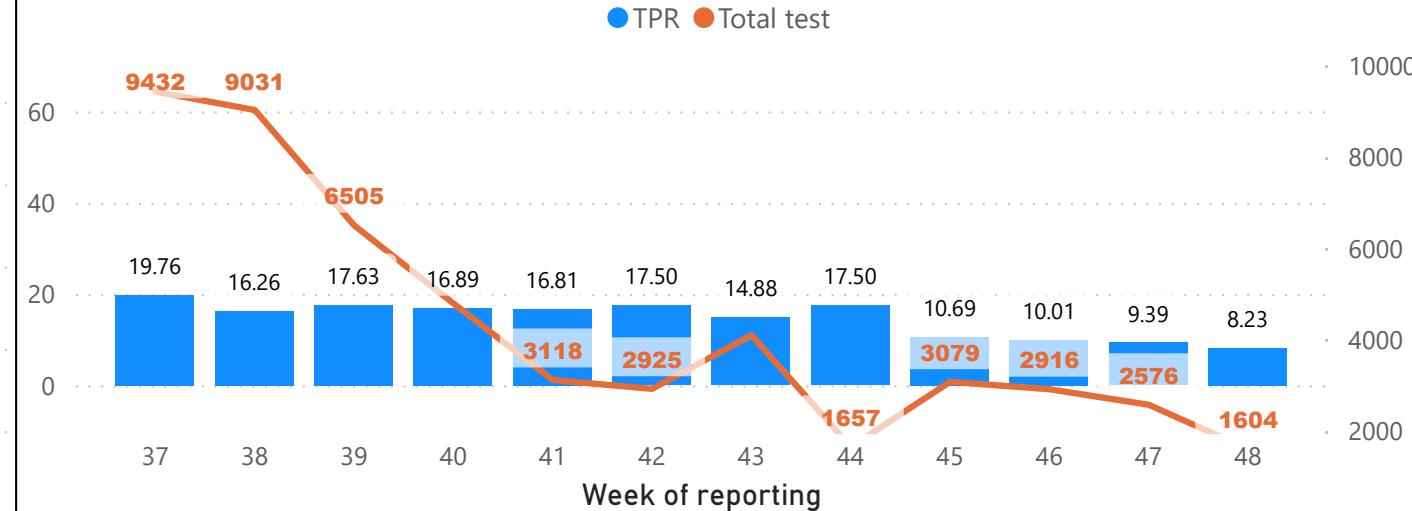
● Confirmed Cases ● 7 days rolling average



Cases and Deaths by Week of reporting



TPR and Total test by Week of reporting



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.

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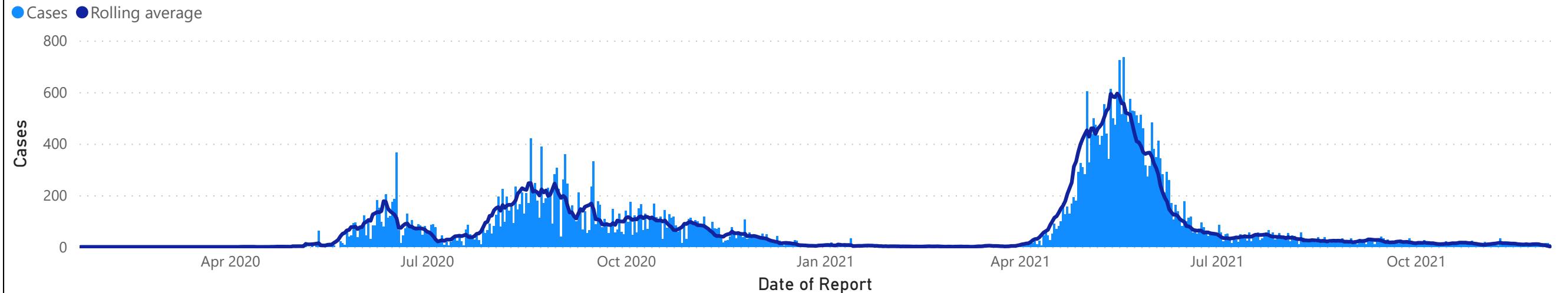
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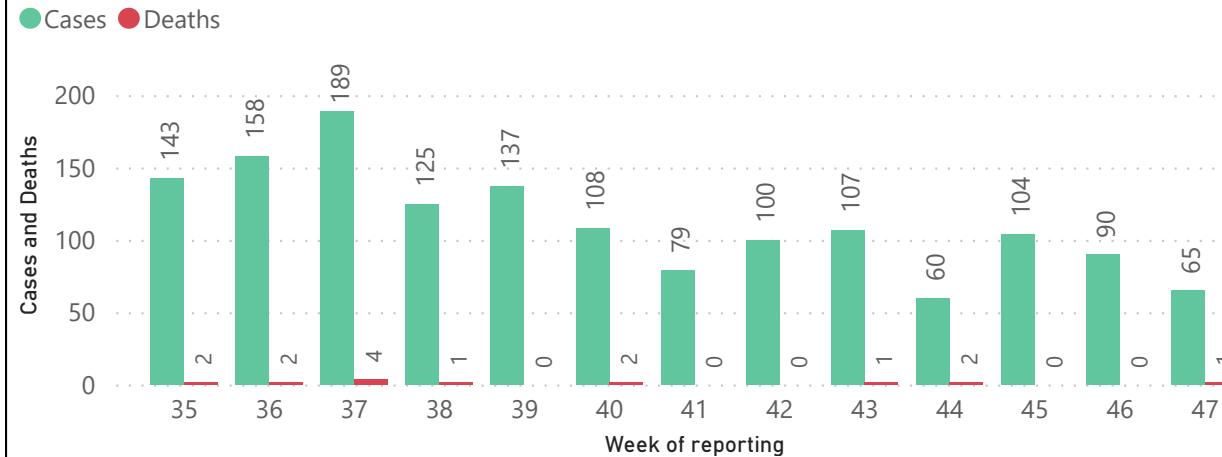
# Daily update on Covid-19 in Province 2: Trend of Cases, 7 days Rolling Average, Weekly Cases and Deaths and Test Positivity Rate

Cases and Rolling average by Date of Report

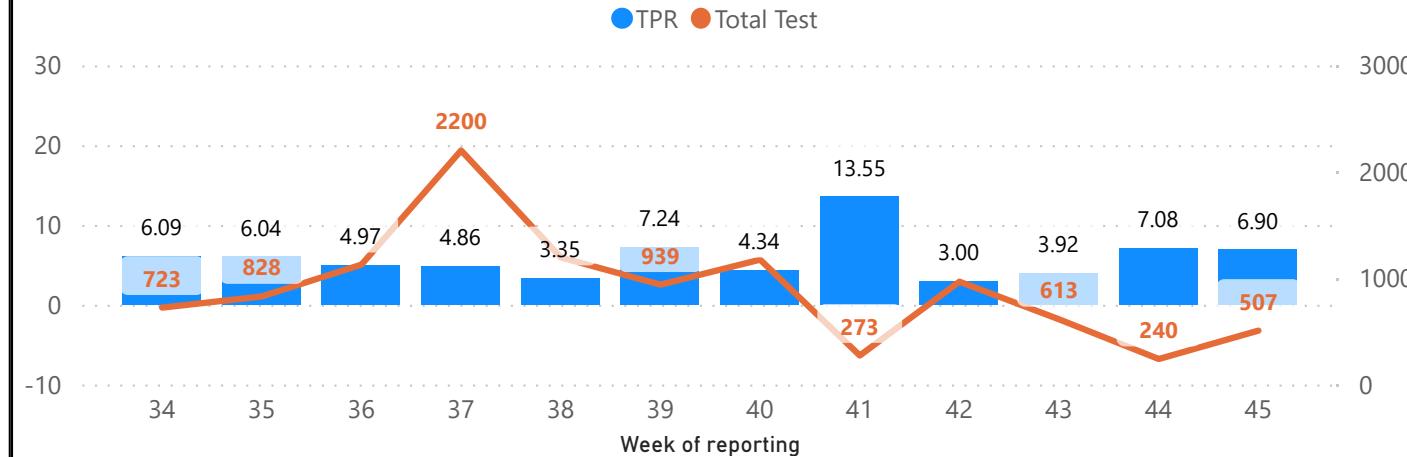
**Province 2 47346**



Cases and Deaths by Week of reporting



TPR and Total Test by Week of reporting



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.

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# Daily update on Covid-19 in Bagmati: Trend of Cases, 7 days Rolling Average, Weekly Cases and Deaths and Test Positivity Rate

Cases and Rolling average by Date of Report

● Cases ● Rolling average

**Bagmati 422942**

Cases

4K

2K

0K

Apr 2020

Jul 2020

Oct 2020

Jan 2021

Apr 2021

Jul 2021

Oct 2021

Date of Report

Cases and Deaths by Week of reporting

● Cases ● Deaths

5K

0K

5584

56

3945

48

3419

34

3353

22

2875

23

2584

31

1490

22

2268

25

1764

27

1105

19

1244

15

1137

7

1146

15

Week of reporting

TPR and Total Tests by Week of reporting

● TPR ● Total Tests

50

0

43897

15.86

46740

13.65

48960

9.40

52800

7.49

52618

7.47

52346

6.48

49726

6.20

26061

6.64

43402

6.80

39379

4.84

27073

4.84

47511

3.25

0

0

Week of reporting

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.

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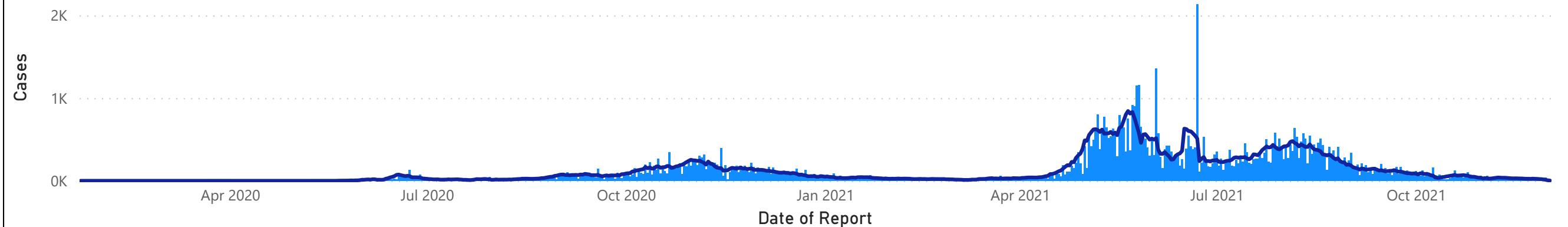


# Daily update on Covid-19 in Gandaki: Trend of Cases, 7 days Rolling Average, Weekly Cases and Deaths and Test Positivity Rate

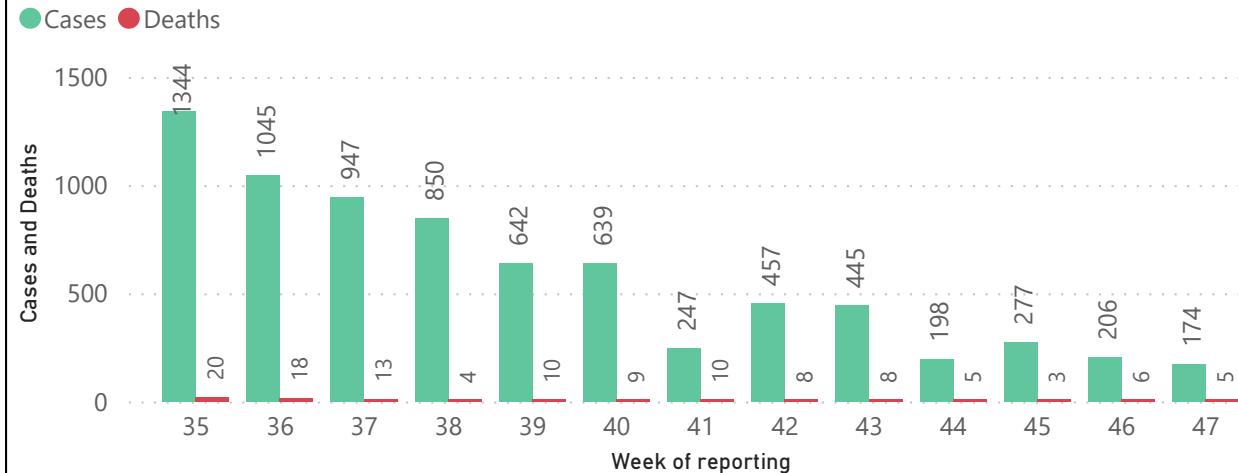
Cases and Rolling average by Date of Report

**Gandaki 81859**

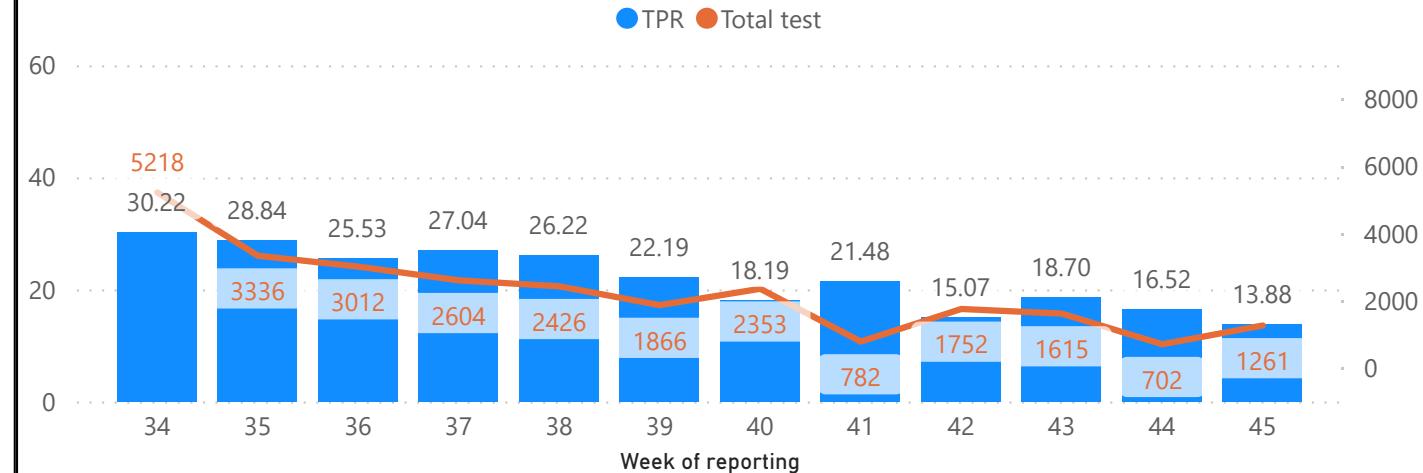
● Cases ● Rolling average



Cases and Deaths by Week of reporting



TPR and Total test by Week of reporting



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.

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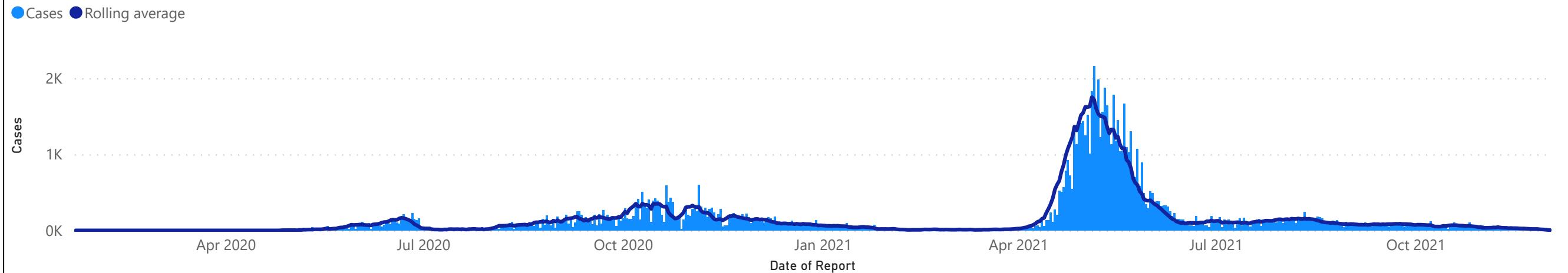
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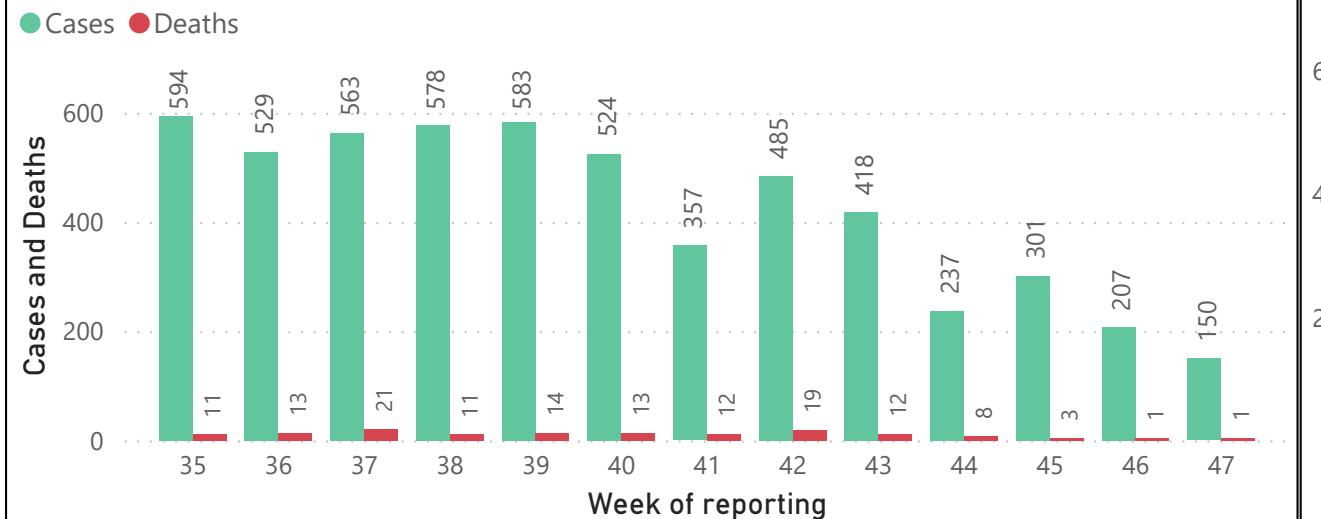
# Daily update on Covid-19 in Lumbini: Trend of Cases, 7 days Rolling Average, Weekly Cases and Deaths and Test Positivity Rate

Cases and Rolling average by Date of Report

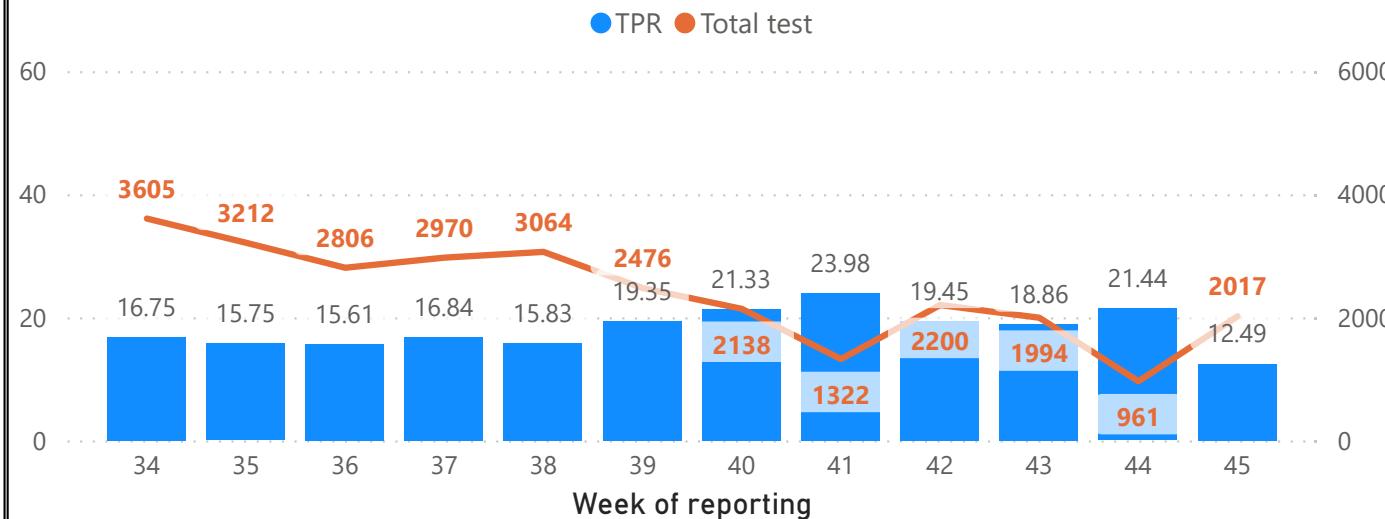
Lumbini 100338



Cases and Deaths by Week of reporting



TPR and Total test by Week of reporting



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.

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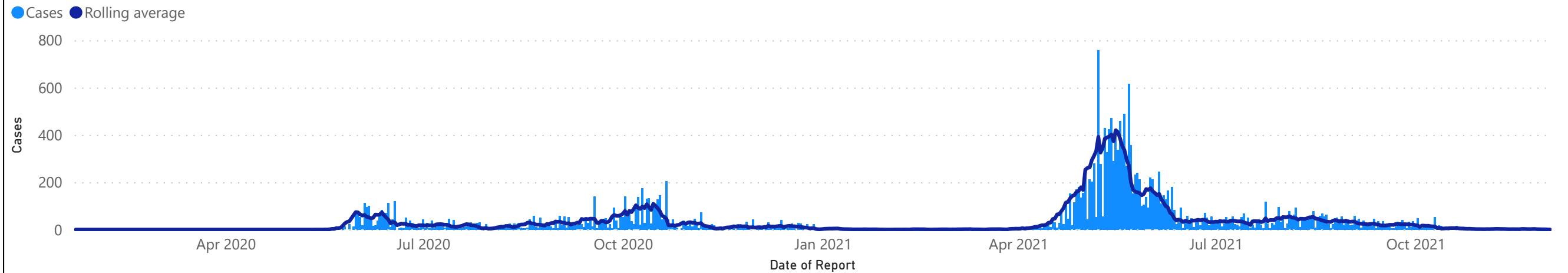
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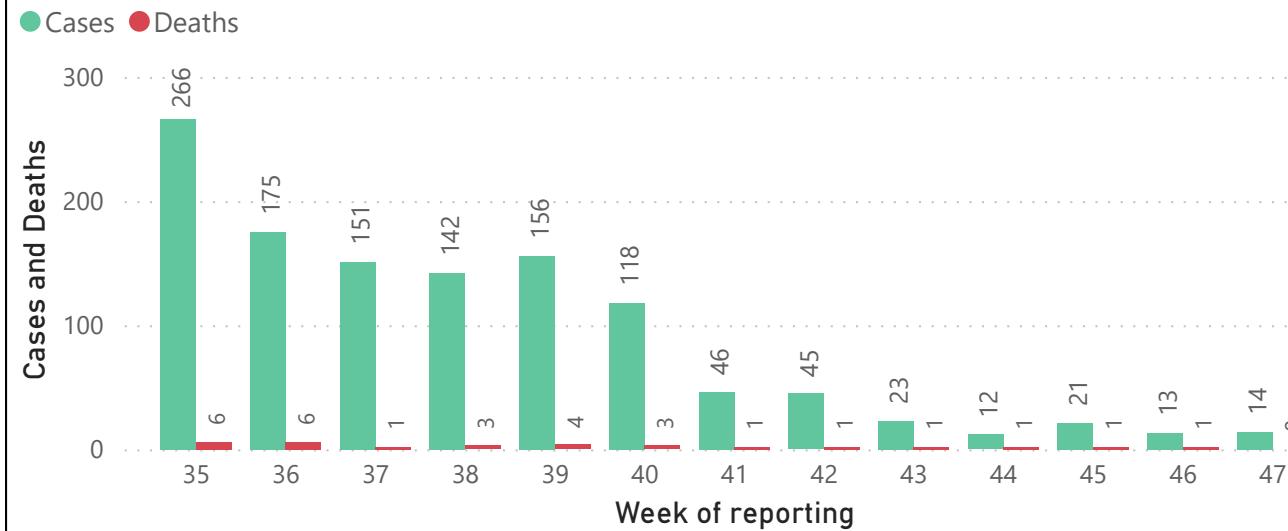


# Daily update on Covid-19 in Karnali: Trend of Cases, 7 days Rolling Average, Weekly Cases and Deaths and Test Positivity Rate

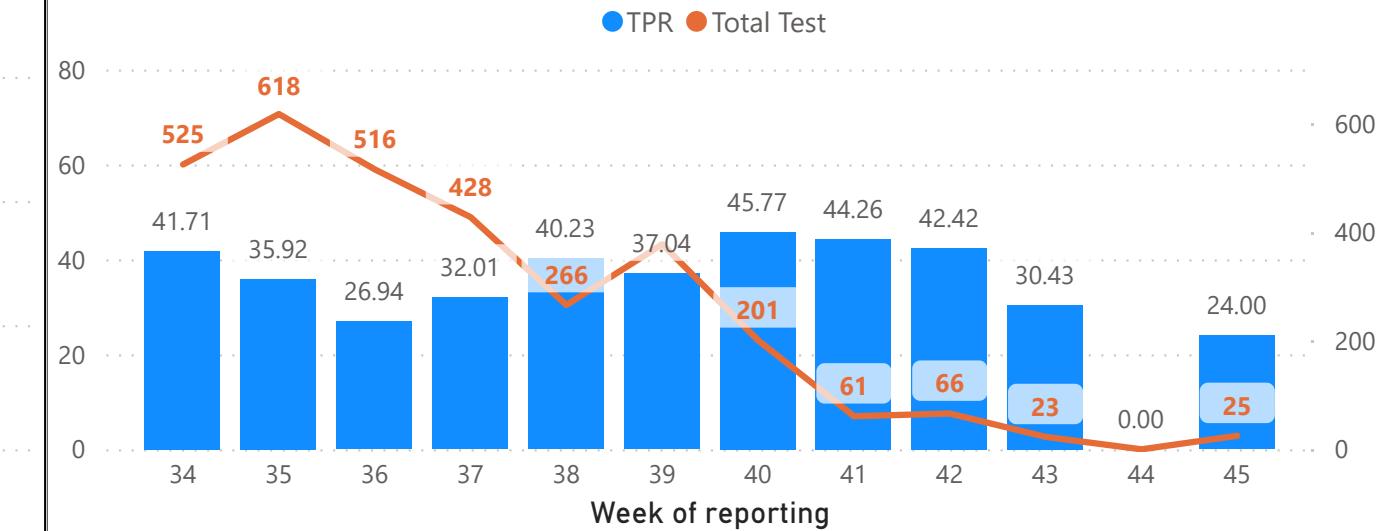
Cases and Rolling average by Date of Report



Cases and Deaths by Week of reporting



TPR and Total Test by Week of reporting



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.

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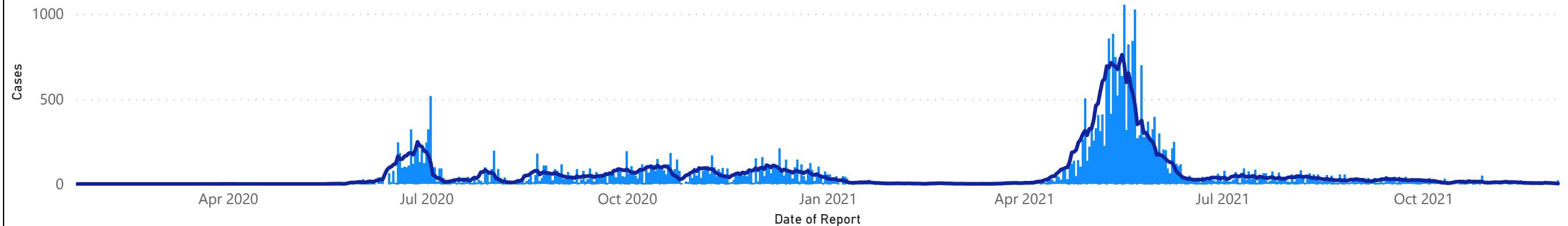


# Daily update on Covid-19 in Sudurpaschim: Trend of Cases, 7 days Rolling Average, Weekly Cases and Deaths and Test Positivity Rate

Cases and Rolling average by Date of Report

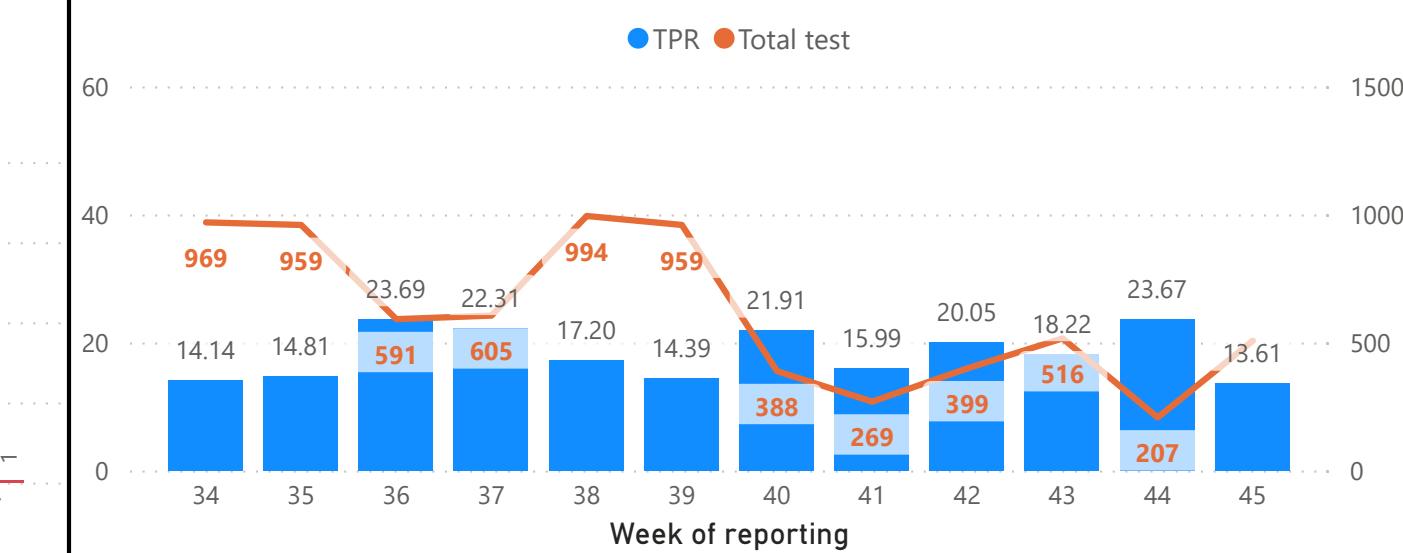
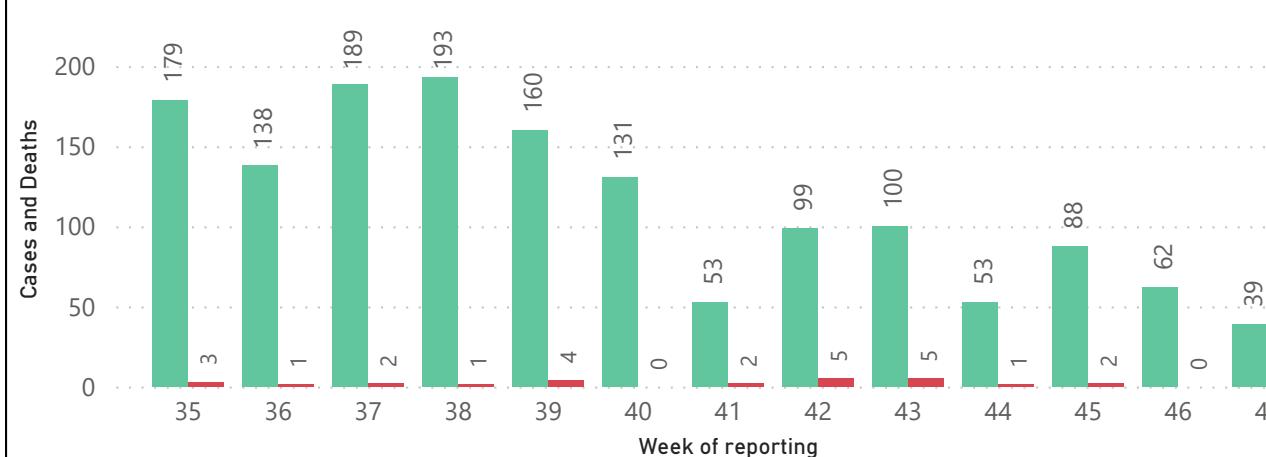
**Sudurpaschim 39304**

● Cases ● Rolling average



Cases and Deaths by Week of reporting

● Cases ● Deaths



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.

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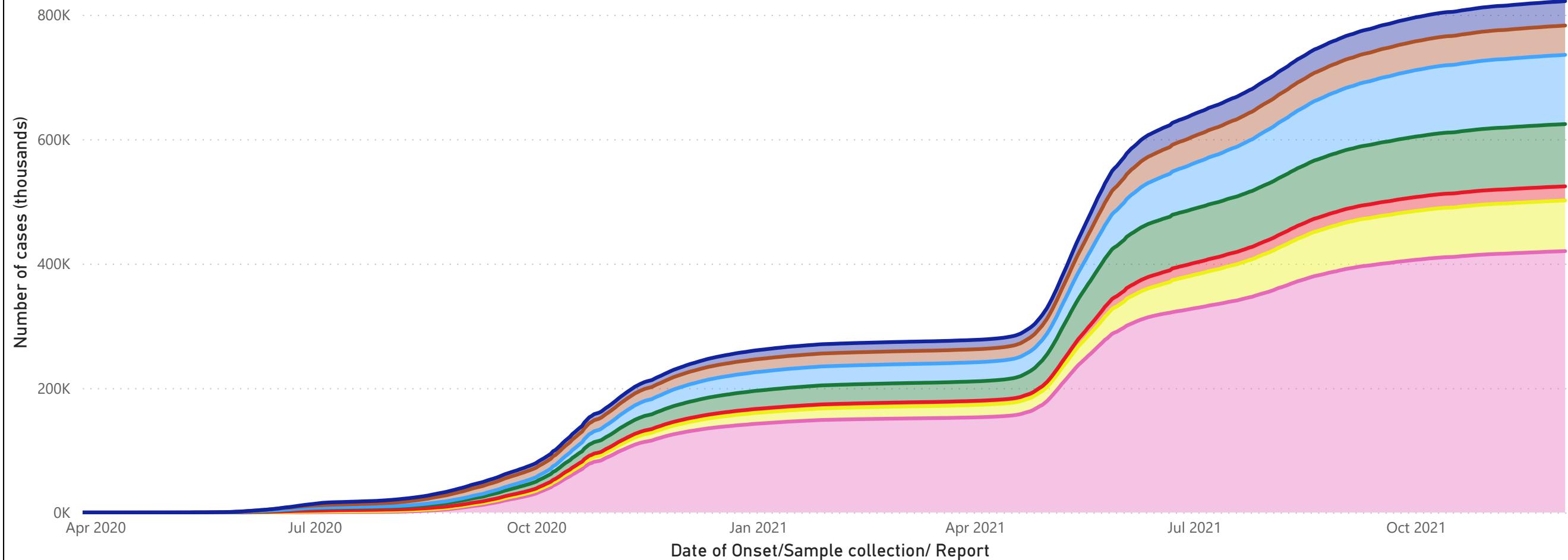
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# Cumulative case count of RT-PCR confirmed COVID-19 cases by province

Number of cases (thousands) by Date of Onset/Sample collection/ Report and Province

Province ● Bagmati ● Gandaki ● Karnali ● Lumbini ● Province 1 ● Province 2 ● Sudur Paschim



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.

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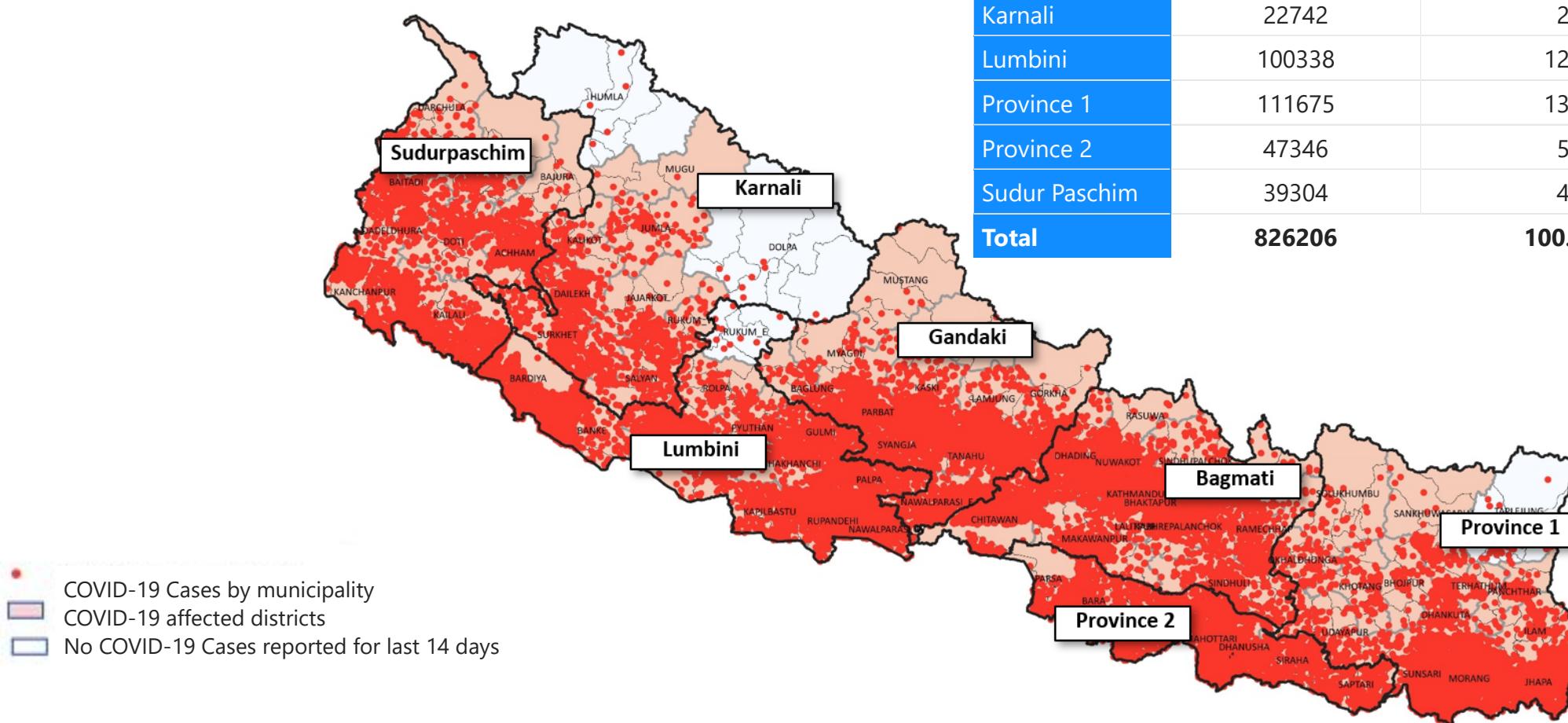
# Place distribution

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



Province	Total confirmed cumulative cases RT-PCR test	% of total number of confirmed cases	District affected (total districts)	Date of last case
Bagmati	422942	51.19%	13	21 December 2021
Gandaki	81859	9.91%	11	21 December 2021
Karnali	22742	2.75%	10	21 December 2021
Lumbini	100338	12.14%	12	21 December 2021
Province 1	111675	13.52%	14	21 December 2021
Province 2	47346	5.73%	8	21 December 2021
Sudur Paschim	39304	4.76%	9	21 December 2021
<b>Total</b>	<b>826206</b>	<b>100.00%</b>	<b>77</b>	<b>21 December 2021</b>

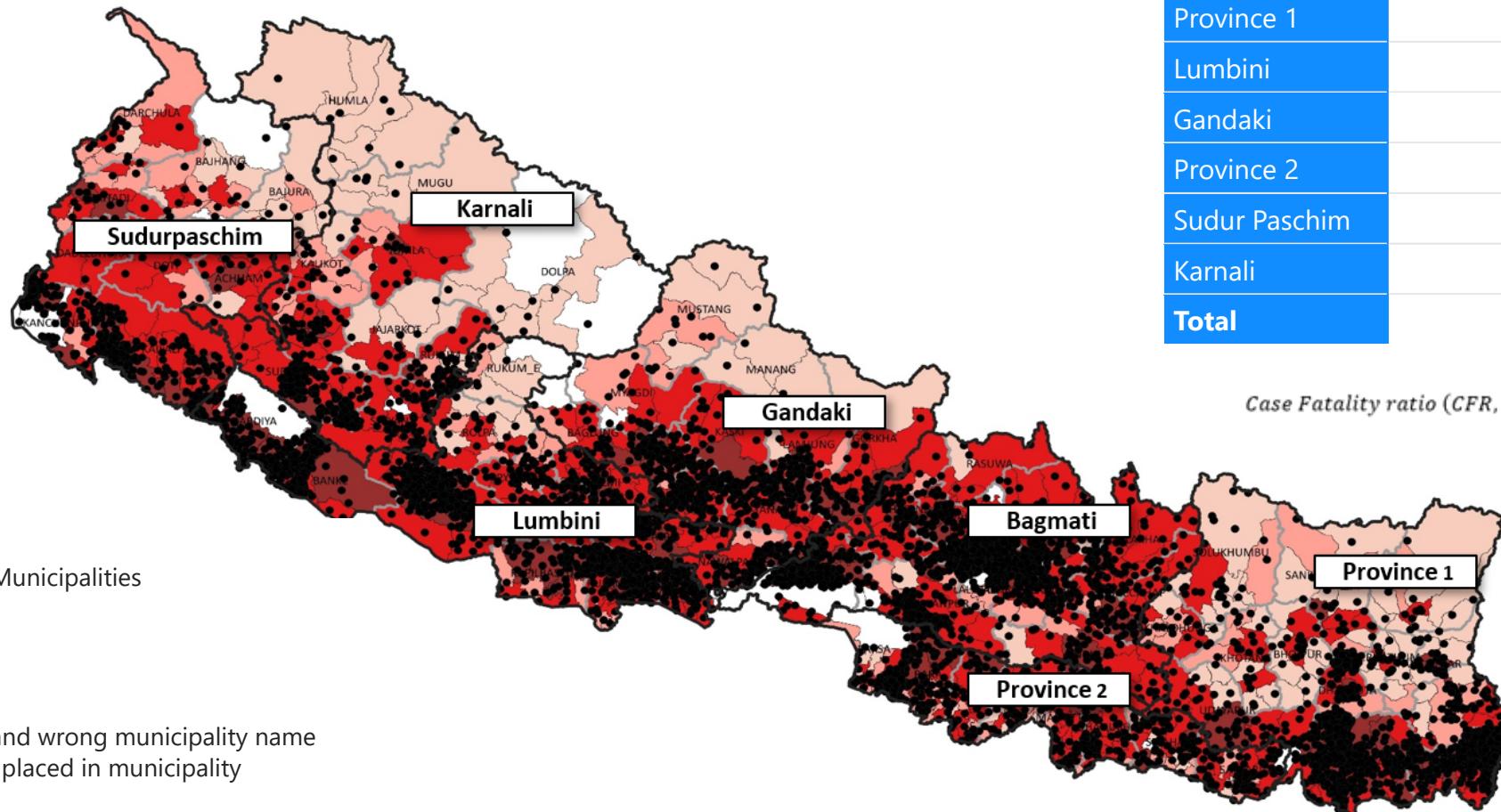
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## National: Municipalities (By domicile) with reported RT-PCR confirmed COVID-19 cases and death



Province	Total confirmed cumulative cases RT-PCR test	Total Death	cfr
Bagmati	422942	4932	1.17
Province 1	111675	1668	1.49
Lumbini	100338	1818	1.81
Gandaki	81859	1366	1.67
Province 2	47346	770	1.63
Sudur Paschim	39304	491	1.25
Karnali	22742	484	2.13
<b>Total</b>	<b>826206</b>	<b>11529</b>	<b>1.40</b>

$$\text{Case Fatality ratio (CFR,in\%)} = \frac{\text{Number of deaths from disease}}{\text{Number of confirmed cases of disease}} \times 100$$

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.

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# Person distribution

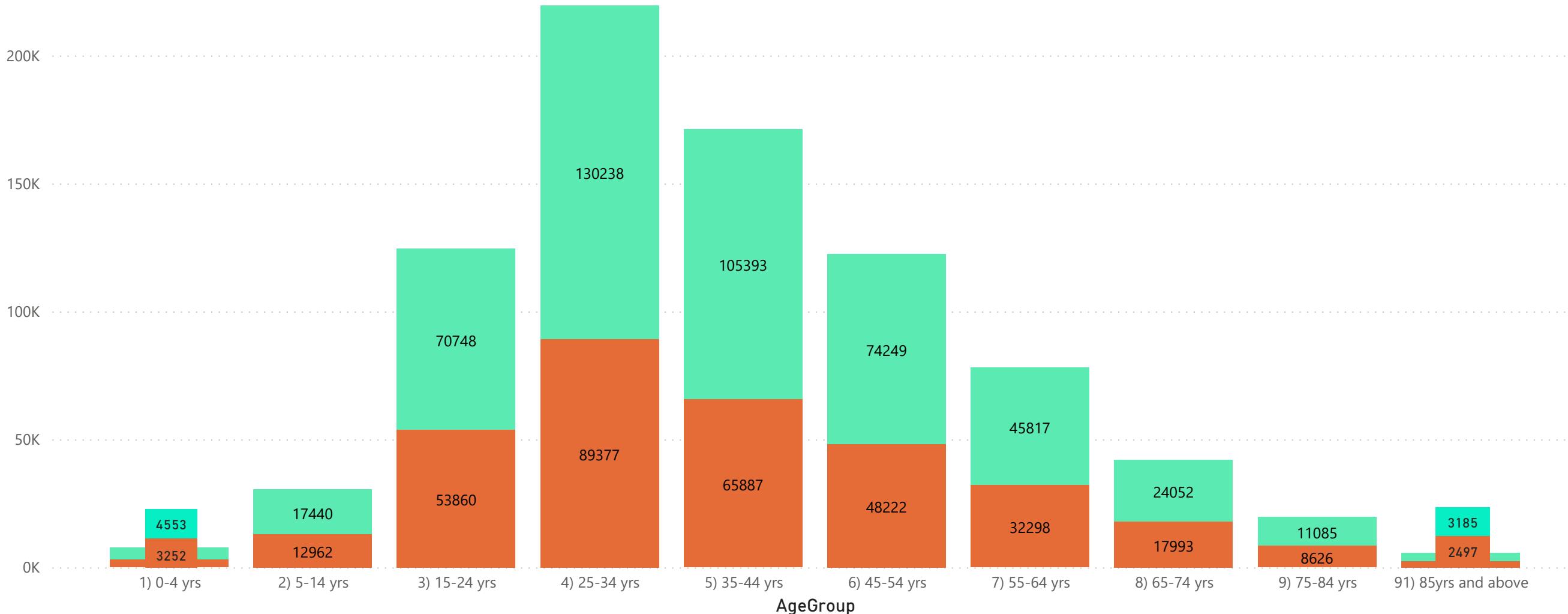
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# Distribution of RT-PCR positive COVID-19 cases by age and sex (N = 821734 )

Sex\_at\_birth ● Female ● Male



Core epidemiological variables under process for 4343 cases

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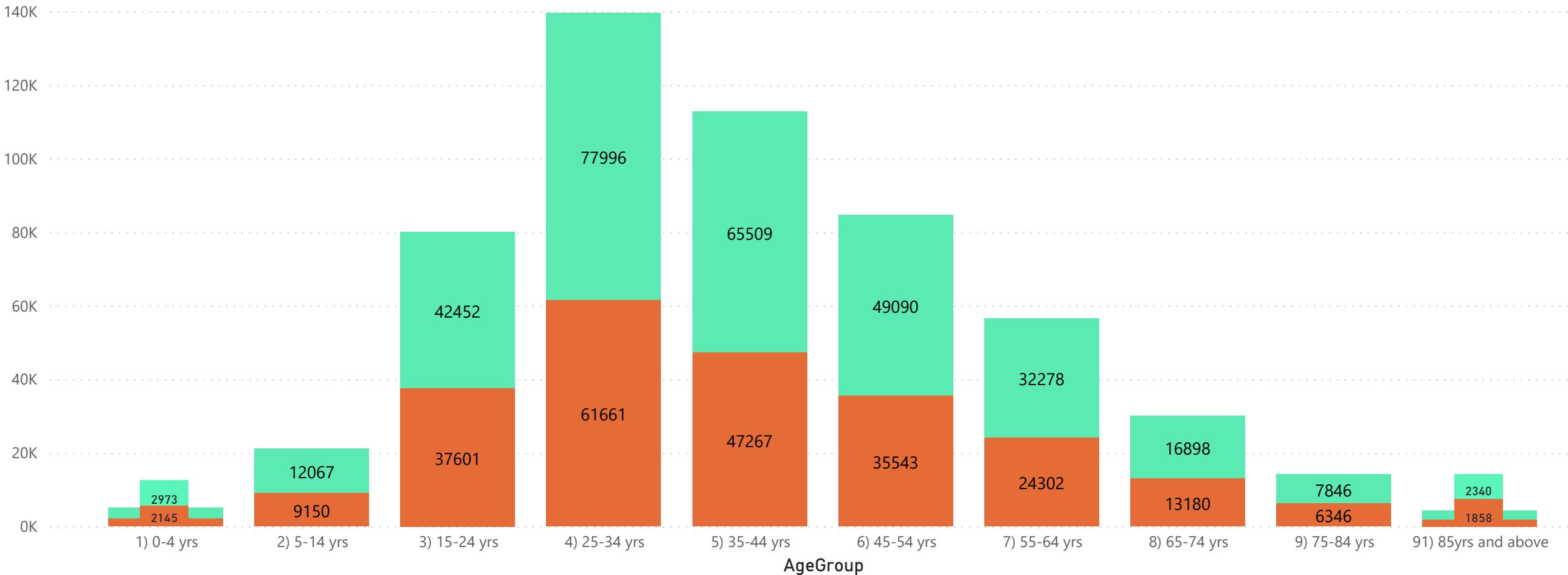
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Since 15 March 2021

# Distribution of RT-PCR positive COVID-19 cases by age and sex(N= 548502 )

Sex\_at\_birth ● Female ● Male



Core epidemiological variables under process for 4343 cases

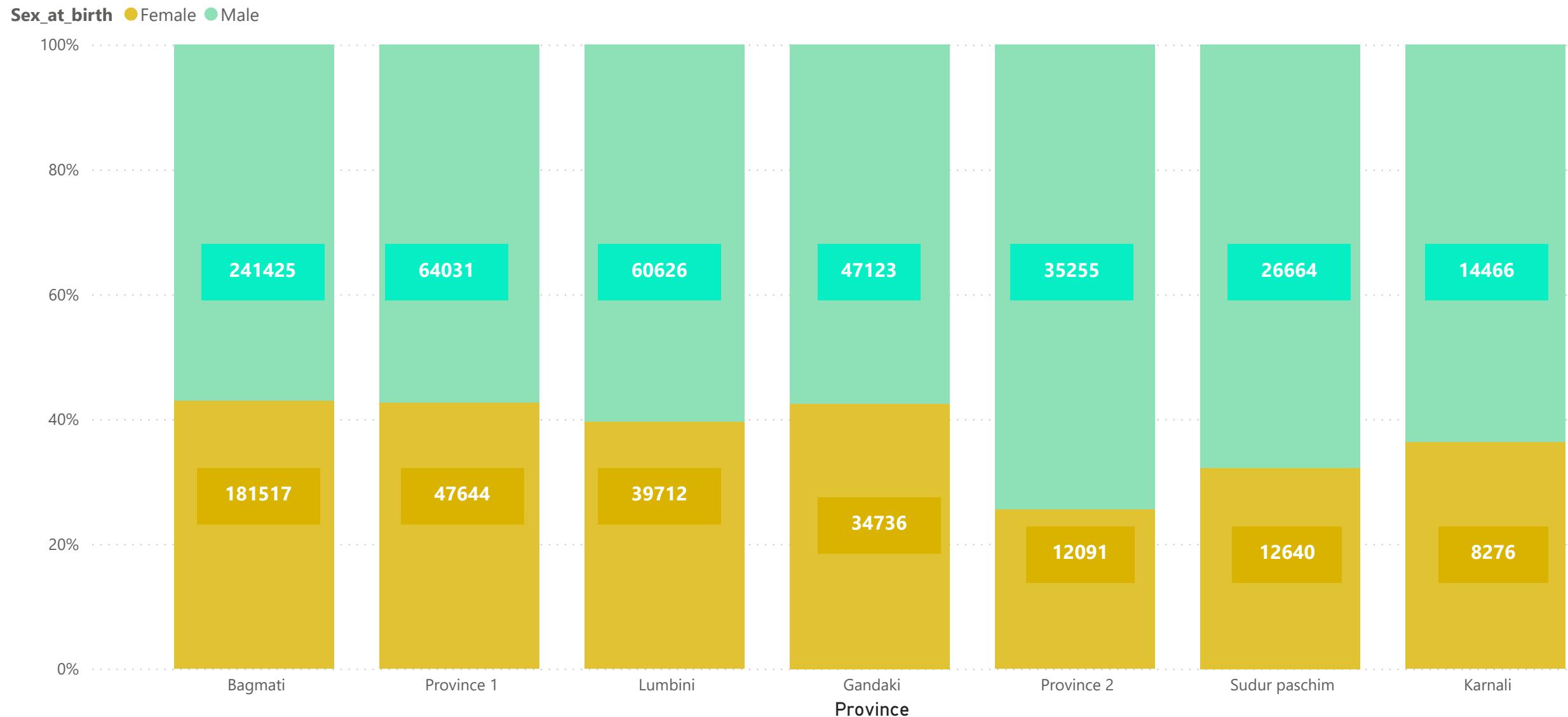
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# Sex- distribution of RT-PCR positive COVID-19 cases (N= 826206 )



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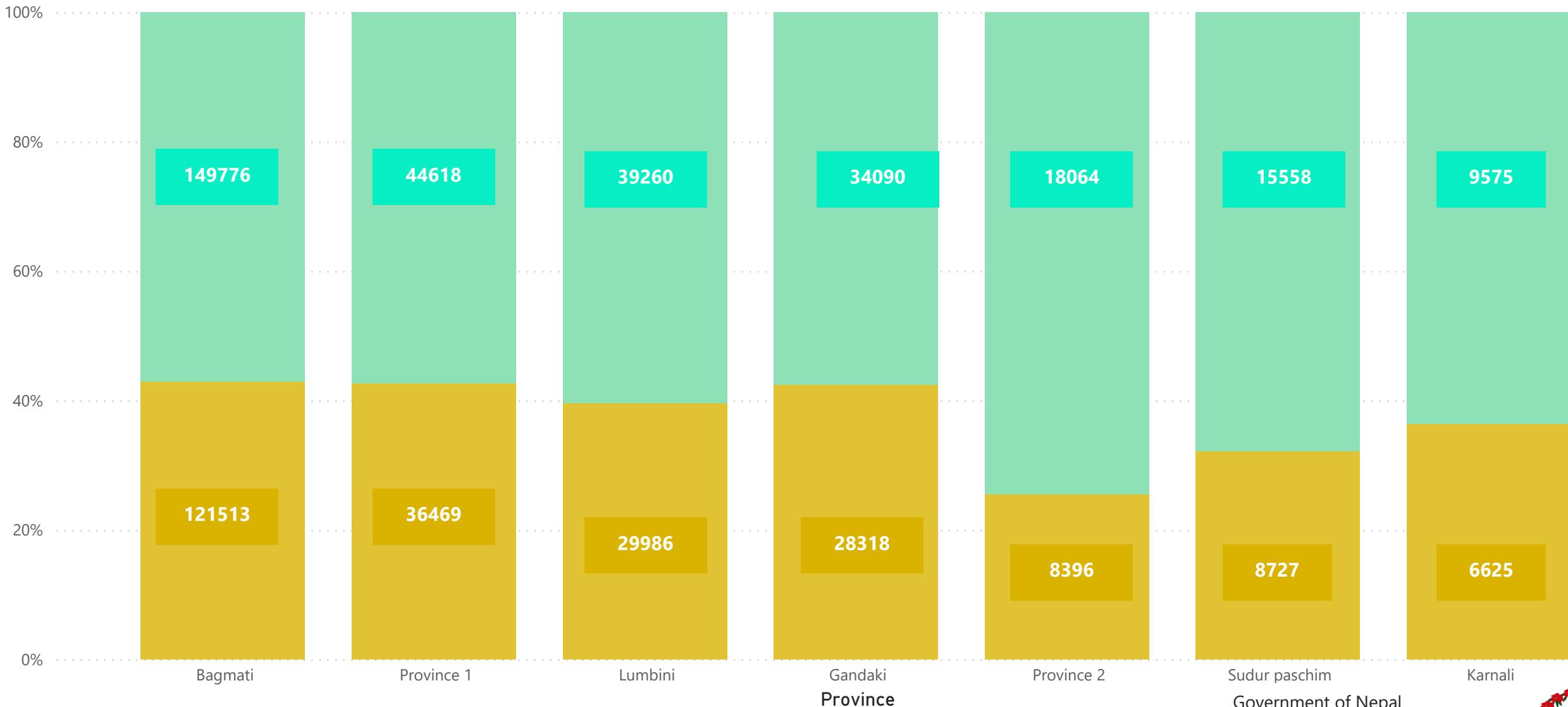
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Since 15 March 2021

# Sex- distribution of RT-PCR positive COVID-19 cases (N= 550975 )

Sex\_at\_birth ● Female ● Male



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# Distribution of COVID-19 cases by age and sex for RT-PCR positives (N= 826206 )

Percentage of male among total confirmed cases: 59 % ( 489590 / 826206 )

Percentage of male in 15-54 year among confirmed cases: 78 % ( 380628 / 489590 )

Province	1) 0-4 yrs	2) 5-14 yrs	3) 15-24 yrs	4) 25-34 yrs	5) 35-44 yrs	6) 45-54 yrs	7) 55-64 yrs	8) 65-74 yrs	9) 75-84 yrs	91) 85yrs and above	99) Unknown	Total
■ Karnali	226	980	4749	6978	4631	2587	1501	701	268	56	65	22742
Female	72	406	1713	2504	1632	909	583	290	123	25	19	8276
Male	154	574	3036	4474	2999	1678	918	411	145	31	46	14466
■ Sudur	612	1707	8255	11970	7913	4417	2289	1250	567	113	211	39304
Female	256	663	2821	3557	2315	1424	807	454	230	46	67	12640
Male	356	1044	5434	8413	5598	2993	1482	796	337	67	144	26664
■ Province 2	472	1609	9117	12840	9607	6542	4007	2048	588	136	380	47346
Female	152	584	2091	2760	2263	1983	1297	664	182	45	70	12091
Male	320	1025	7026	10080	7344	4559	2710	1384	406	91	310	35255
■ Gandaki	602	3100	12144	20507	16504	12543	8520	4619	2354	716	250	81859
Female	259	1284	5595	8831	6688	5096	3546	2009	1022	310	96	34736
Male	343	1816	6549	11676	9816	7447	4974	2610	1332	406	154	47123
■ Lumbini	769	3010	15199	27665	21486	15221	9391	4763	1990	403	441	100338
Female	336	1321	6312	10888	8178	5822	3812	1962	790	134	157	39712
Male	433	1689	8887	16777	13308	9399	5579	2801	1200	269	284	60626
■ Province 1	921	4151	16268	27340	23618	17092	11108	6208	2906	849	1214	111675
Female	388	1850	7815	11892	9449	6896	4619	2661	1257	370	447	47644
Male	533	2301	8453	15448	14169	10196	6489	3547	1649	479	767	64031
■ Bagmati	4203	15845	58876	112315	87521	64069	41299	22456	11038	3409	1911	422942
Female	1789	6854	27513	48945	35362	26092	17634	9953	5022	1567	786	181517
Male	2414	8991	31363	63370	52159	37977	23665	12503	6016	1842	1125	241425
<b>Total</b>	<b>7805</b>	<b>30402</b>	<b>124608</b>	<b>219615</b>	<b>171280</b>	<b>122471</b>	<b>78115</b>	<b>42045</b>	<b>19711</b>	<b>5682</b>	<b>4472</b>	<b>826206</b>

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Since 15 March 2021

# Distribution of COVID-19 cases by age and sex for RT-PCR positives (N= 550975 )

Percentage of male among total confirmed cases: **56 % ( 310941 / 5509... )**

Percentage of male in 15-54 year among confirmed male cases: **76 % ( 235047 / 310941 )**

Province	1) 0-4 yrs	2) 5-14 yrs	3) 15-24 yrs	4) 25-34 yrs	5) 35-44 yrs	6) 45-54 yrs	7) 55-64 yrs	8) 65-74 yrs	9) 75-84 yrs	91) 85yrs and above	99) Unknown	<b>Total</b>
<b>Karnali</b>	<b>112</b>	<b>732</b>	<b>2896</b>	<b>4836</b>	<b>3430</b>	<b>2017</b>	<b>1238</b>	<b>614</b>	<b>228</b>	<b>43</b>	<b>54</b>	<b>16200</b>
Female	39	301	1264	1982	1363	779	504	254	103	20	16	6625
Male	73	431	1632	2854	2067	1238	734	360	125	23	38	9575
<b>Sudur</b>	<b>208</b>	<b>907</b>	<b>4298</b>	<b>7216</b>	<b>5158</b>	<b>3111</b>	<b>1714</b>	<b>973</b>	<b>458</b>	<b>91</b>	<b>151</b>	<b>24285</b>
Female	89	346	1732	2453	1713	1108	646	365	185	39	51	8727
Male	119	561	2566	4763	3445	2003	1068	608	273	52	100	15558
<b>Province 2</b>	<b>256</b>	<b>871</b>	<b>4261</b>	<b>6660</b>	<b>5287</b>	<b>4190</b>	<b>2780</b>	<b>1432</b>	<b>437</b>	<b>104</b>	<b>182</b>	<b>26460</b>
Female	87	341	1355	1852	1583	1493	980	478	147	36	44	8396
Male	169	530	2906	4808	3704	2697	1800	954	290	68	138	18064
<b>Gandaki</b>	<b>498</b>	<b>2533</b>	<b>9060</b>	<b>14998</b>	<b>12333</b>	<b>9712</b>	<b>6892</b>	<b>3709</b>	<b>1898</b>	<b>578</b>	<b>197</b>	<b>62408</b>
Female	214	1045	4475	7087	5481	4210	2969	1647	855	256	79	28318
Male	284	1488	4585	7911	6852	5502	3923	2062	1043	322	118	34090
<b>Lumbini</b>	<b>489</b>	<b>2060</b>	<b>9374</b>	<b>18336</b>	<b>14899</b>	<b>11159</b>	<b>7255</b>	<b>3538</b>	<b>1490</b>	<b>315</b>	<b>331</b>	<b>69246</b>
Female	200	908	4499	8068	6305	4636	3034	1483	615	107	131	29986
Male	289	1152	4875	10268	8594	6523	4221	2055	875	208	200	39260
<b>Province 1</b>	<b>689</b>	<b>3186</b>	<b>11590</b>	<b>19284</b>	<b>17135</b>	<b>12620</b>	<b>8350</b>	<b>4739</b>	<b>2226</b>	<b>664</b>	<b>604</b>	<b>81087</b>
Female	283	1431	5853	8990	7320	5371	3619	2096	982	293	231	36469
Male	406	1755	5737	10294	9815	7249	4731	2643	1244	371	373	44618
<b>Bagmati</b>	<b>2866</b>	<b>10928</b>	<b>38574</b>	<b>68327</b>	<b>54534</b>	<b>41824</b>	<b>28351</b>	<b>15073</b>	<b>7455</b>	<b>2403</b>	<b>954</b>	<b>271289</b>
Female	1233	4778	18423	31229	23502	17946	12550	6857	3459	1107	429	121513
Male	1633	6150	20151	37098	31032	23878	15801	8216	3996	1296	525	149776
<b>Total</b>	<b>5118</b>	<b>21217</b>	<b>80053</b>	<b>139657</b>	<b>112776</b>	<b>84633</b>	<b>56580</b>	<b>30078</b>	<b>14192</b>	<b>4198</b>	<b>2473</b>	<b>550975</b>

Technical Assistance from WHO, Nepal

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Government of Nepal  
 Ministry of Health & Population  
 Department of Health Services  
**Epidemiology & Disease Control Division**



# Age-specific case fatality ratio and comorbidity of deaths in RT- PCR confirmed COVID-19 cases (N= 826206 )

AgeGroup	Total confirmed cases	Female	Male	comorbidity	cfr
1) 0-4 yrs	7805	21	16	13	0.43
2) 5-14 yrs	30402	7	13	10	0.06
3) 15-24 yrs	124608	89	88	62	0.16
4) 25-34 yrs	219615	259	367	135	0.38
5) 35-44 yrs	171280	440	861	264	1.00
6) 45-54 yrs	122471	624	1351	524	1.96
7) 55-64 yrs	78115	768	1632	714	3.44
8) 65-74 yrs	42045	846	1578	873	5.83
9) 75-84 yrs	19711	623	1161	690	9.18
91) 85yrs and above	5682	271	488	239	14.21
99) Unknown	4472	7	19	11	0.96
<b>Total</b>	<b>826206</b>	<b>3955</b>	<b>7574</b>	<b>3535</b>	<b>1.40</b>

$$\text{Case Fatality ratio (CFR, in\%)} = \frac{\text{Number of deaths from disease}}{\text{Number of confirmed cases of disease}} \times 100$$

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

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# Since 15 March 2021 Age-specific case fatality ratio and comorbidity of deaths in RT- PCR confirmed COVID-19 cases (N= 550975 )

AgeGroup	Total confirmed cases	Female	Male	comorbidity	cfr
1) 0-4 yrs	5118	13	8	8	0.43
2) 5-14 yrs	21217	3	9	5	0.06
3) 15-24 yrs	80053	59	60	30	0.16
4) 25-34 yrs	139657	215	284	87	0.38
5) 35-44 yrs	112776	373	700	177	1.00
6) 45-54 yrs	84633	509	1058	341	1.96
7) 55-64 yrs	56580	612	1220	417	3.44
8) 65-74 yrs	30078	604	1034	458	5.83
9) 75-84 yrs	14192	431	762	353	9.18
91) 85yrs and above	4198	205	334	126	14.21
99) Unknown	2473	6	16	8	0.96
<b>Total</b>	<b>550975</b>	<b>3030</b>	<b>5485</b>	<b>2010</b>	<b>1.55</b>

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

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$$\text{Case Fatality ratio (CFR, in\%)} = \frac{\text{Number of deaths from disease}}{\text{Number of confirmed cases of disease}} \times 100$$

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