Analysis on Covid-19 Pune

Name	Roll Number
Atharva Madhure	9784
Swaraj Gurav	9805
Vaibhav Rokade	

Sr No	daily samples	daily confirmed	daily recovered	daily deceased	total critical	total samples	total confirmed	total hospitals	total recovered	total deceased	population covered	flu	Date
1	153	15	0	2		2231	255	198	26	31	1930096	56	12.04.2020
2	115	33	1	2	4	2346	278	218	27	33	2152692	201	13.04.2020
3	157	44	1	4	6	2503	322	260	28	34	2355472	87	14.04.2020
4	220	55	1	4	5	2723	377	307	29	41	2576501	110	15.04.2020
5	265	65	0	5	7	2988	442	367	29	46	2798651	141	16.04.2020
6	256	59	4	3	10	3244	501	421	33	47	3092727	89	17.04.2020
7	362	43	4	2	8	3606	544	459	37	48			18.04.2020
8	181	42	18	0	15	3787	586	482	55	49			19.04.2020
9	182	80	13	0	14	3969	666	548	68	50	3737021	140	20.04.2020
10	340	42	19	2	15	4309	708	569	87	52	3981330	131	21.04.2020
11	562	64	35	4	26	4871	772	594	122	56	4063784	106	22.04.2020
12	667	104	8	4	36	5538	876	686	130	60	4298516	95	23.04.2020
13	367	72	6	5	44	7230	1139	768	165	72			26.04.2020
14	445	78	11	3	49	7675	1217	821	176	75	5062457	212	27.04.2020
15	510	122	27	2	73	8185	1339	919	203	79	5323085	94	28.04.2020
16	673	93	27	2	70	8858	1432	980	230	81	5612516	59	29.04.2020
17	340	86	44	7	70	9198	1518	1022	274	85	5894519	44	30.04.2020
18	691	93	51	7	64	9889	1611	1057	325	92	6163716	50	01.05.2020
19	413	107	53	3	67	10302	1718	1246	378	94	6828243	55	02.05.2020
20	451	99	55	7	75	10753	1817	1152	433	101			03.05.2020
21	106	61	50	6	76	10859	1878	1150	483	107			04.05.2020
22	998	65		4	76	16679	1943	1297	535	111	7400712	64	05.05.2020
23	890	86	52	7	79	17569	2029	1324	587	118	7701559	45	06.05.2020
24	1059	117	84	7	72	18628	2146	1350	671	125	7987304	51	07.05.2020
25	1642	99	61	12	76	20270	2245	1377	732	137			08.05.2020
26	1543	135	96	4	70	21813	2380	1414	826	140			09.05.2020
27	938	102	194	3	92	22751	2482	1318	1020	145			10.05.2020
28	1008	91	69	5	98	23759	2573	1335	1089	149	8893882	40	11.05.2020
29	989	164	120	7	107	24748	2737	1372	1209	156	9204682	40	12.05.2020
30	1205	87	168	7	115	25953	2824	1284	1377	163	9527043	45	13.05.2020
31	1414	163	109	6	116	27349	2987	1332	1486	169	9836484	51	14.05.2020
32	1652	106	144	5	132	29001	3093	1289	1630	174	10150240	42	15.05.2020

33	1205	202	68	11	149	30224	3295	1412	1698	185	10448921	26	16.05.2020
34	693	201	53	9	141	30917	3496	1551	1751	194			17.05.2020
35	1419	102	49	5	148	32336	3598	1599	1800	199	10728496	42	18.05.2020
36	1459	149	110	8	156	33795	3747	1630	1910	207	10978998	20	19.05.2020
37	1507	152	113	14	165	35302	3899	1656	2023	221	11222312	38	20.05.2020
38	1733	208	159	7	169	37035	4107	1698	2182	227	11460451	27	21.05.2020
39	1735	291	189	14	168	38770	4398	1786	2371	241	11690770	39	22.05.2020
40	1723	205	92	7	170	40493	4603	1892	2463	248	11696949	37	23.05.2020
41	681	179	77	7	176	41174	4782	1977	2550	255			24.05.2020
42	689	399	175	10	179	41863	5181	2182	2735	264	11913350	21	25.05.2020
43	2044	246	140	9	176	43907	5427	2279	2875	273	12146109	11	26.05.2020
44	1360	106	184	11	171	45267	5533	2190	3059	284	12383074	24	27.05.2020
45	1315	318	205	10	150	46582	5851	2294	3264	293	12559845	10	28.05.2020
46	1179	242	186	10	166	47761	6093	2340	3450	303	12738419	40	29.05.2020
47	1200	108	194	8	170	48961	6201	2248	3644	309	12926337	9	30.05.2020
48	359	271	138	6	173	49320	6472	2376	3782	314			31.05.2020
49	1597	57	168	6	174	50917	6529	2259	3950	320	13089416	42	1.06.2020
50	1543	266	169	25	165	52460	6795	2331	4119	345	13248025	30	2.06.2020
51	1249	294	229	8	165	53709	7089	2389	4348	352	13374837	13	3.06.2020
52	1441	176	157	11	176	55150	7265	2399	4505	361	13456220	4	4.06.2020
53	1656	182	170	9	183	56806	7447	2402	4675	370	13622530	23	5.06.2020
54	1649	275	259	3	195	58455	7722	2413	4934	372	13778921	33	6.06.2020
55	235	159	85	6	209	58690	7881	2484	5019	378			7.06.2020
56	2108	181	166	13	204	60798	8062	2486	5185	391	13962412	24	8.06.2020
57	1697	143	119	12	189	62495	8205	2498	5304	403	14139347	39	9.06.2020
58	1949	304	271	3	214	64444	8509	2528	5575	406	14306079	37	10.06.2020
59	2043	268	207	7	216	66487	8777	2582	5782	413	14497820	36	11.06.2020
60	2249	305	142	12	222	68736	9082	2733	5924	425	14699892	36	12.06.2020
61	2476	254	163	14	208	71212	9336	2810	6087	439	14885765	16	13.06.2020
62	1345	320	123	9	203	71425	9656	2998	6210	448			14.06.2020
63	2234	234	236	10	230	73659	9890	2986	6446	458	15080647	33	15.06.2020
64	2547	293	150	11	213	76206	10183	3118	6596	469	15262567	35	16.06.2020
65	2841	460	117	12	232	79047	10643	3449	6713	481	15441369	20	17.06.2020
66	2464	472	193	6	245	81511	11115	3772	6906	487	15554441	13	18.06.2020
67	2676	350	157	6	265	84187	11465	3909	7063	493	15637216	25	19.06.2020
68	2684	389	183	11	273	86871	11854	4086	7264	504	15707144	29	20.06.2020
69	1261	620	171	6	290	87179	12474	4529	7435	510			21.06.2020
70	3227	212	255	8	280	90406	12686	4496	7672	518	15758200	17	22.06.2020
71	3402	467	273	10	277	93808	13153	4680	7945	528	15807381	20	23.06.2020
72	3416	501	155	17	277	97224	13654	5009	8100	545	15857567	24	24.06.2020
73	3453	531	202	13	316	100677	14185	5325	8302	558	15904070	15	25.06.2020
74	3378	595	331	14	330	104055	14780	5575	8633	572	15946074	28	26.06.2020
75	3255	822	486	19	308	107310	15602	5892	9119	591	15988158	9	27.06.2020
76	1543	523	328	22	324	108003	16125	6065	9447	613			28.06.2020
77	4038	617	482	5	333	112041	16742	6195	9929	618	16016358	12	29.06.2020
78	3949	486	522	25	350	115990	17228	6134	10451	643	16046748		30.06.2020
79	4068	877	589	19	347	120058	18105	6403	11040	662	16081138		1.07.2020

80	4140	937	631	14	344	124198	19402	6695	11671	676	16118595	18	2.07.2020
81	4250	807	619	9	389	128448	19849	6874	12290	685	16156299	8	3.07.2020
82	3757	819	399	18	385	132205	20668	7276	12689	703	16195728	26	4.07.2020
83	2704	852	420	12	410	132816	21520	7696	13109	715			5.07.2020
84	4548	861	630	15	368	137364	22381	7912	13739	730	16195728	26	6.07.2020
85	3853	640	672	21	385	141217	23021	7859	14411	751	16263699	11	7.07.2020
86	4727	1147	587	19	401	145944	24168	8400	14998	770	16296160	16	8.07.2020
87	4684	1006	581	16	402	150628	25174	8809	15579	786	16332444		9.07.2020
88	4315	903	609	14	443	154943	26077	9089	16188	800	16375649	17	10.07.2020
89	4398	827	808	16	461	159341	26904	9092	16996	816	16417619	54	11.07.2020
90	1514	621	486	24	487	160855	27525	9203	17482	840			12.07.2020
91	5168	832	614	9	486	166023	28357	9412	18096	849	16457998		13.07.2020
92	5749	750	728	25	513	171772	29107	9409	18824	874	16513361	13	14.07.2020
93	6343	1416	746	15	502	178115	30523	10064	19570	889	16571294	68	15.07.2020
94	6582	1812	764	17	536	184697	31884	10644	20334	906	16634735	58	16.07.2020
95	6811	1705	773	11	527	191508	34040	12016	21107	917	16707273	88	17.07.2020
96	6891	1838	774	18	547	198489	35878	13062	21881	935	16772366	27	18.07.2020
97	3815	1508	730	41	557	202304	37386	13799	22611	976	16780733	2	19.07.2020
98	6918	1817	830	29	591	209222	39203	14757	23441	1005	16841934		20.07.2020
99	6222	1512	805	30	616	215444	40715	15434	24246	1035	16918410	30	21.07.2020
100	7595	1751	883	33	609	223039	42466	16269	25129	1068	16995010	48	22.07.2020
101	6665	1599	779	36	589	229704	44065	17053	25908	1104	17075542	45	23.07.2020
102	5747	1479	817	29	663	235451	45544	17686	26725	1133	17164044	49	24.07.2020
103	6090	1521	693	20	673	241541	47065	18494	27418	1153	17248877	30	25.07.2020
104	2506	992	175	13	682	244047	48057	18298	28593	1166			26.07.2020
105	4467	1160	896	16	744	248514	49217	18546	29489	1182	17352357		27.07.2020
106	6567	1213	591	33	742	255081	50430	19135	30080	1215	17439433		28.07.2020
107	5919	1308	2543	39	845	261000	51738	17861	32623	1254	17527217	75	29.07.2020
108	6241	1699	1315	30	927	267241	53437	18215	33938	1284	17606271	21	30.07.2020
109	6151	818	1185	28	626	273392	54255	17820	35123	1312	17684095	24	31.07.2020
110	5863	1506	1791	23	638	279255	55761	17512	36914	1335	17756739	14	1.08.2020
111	3620	1271	1203	31	639	281840	57523	18040	38117	1366	17807999	14	2.08.2020
112	4604	1270	1822	18	633	286444	58304	16981	39939	1384			3.08.2020
113	5595	1192	1312	28	656	292039	59496	16833	41251	1412	17891452	19	4.08.2020
114	5698	1101	1159	17	675	297737	60597	16758	42410	1429	17952148	23	5.08.2020
115	5208	1440	1196	27	674	302945	62037	16975	43606	1456			6.08.2020
116	5584	1249	1168	23	703	308529	63286	17033	44774	1479			7.08.2020
117	5051	1290	1961	37	717	313580	64576	16325	46735	1516			8.08.2020
118	6008	1390	1879	24	726	319588	65966	15812	48614	1540			9.08.2020
119	5133	761	1499	31	738	324721	66727	15043	50113	1571			10.08.2020
120	5320	924	1240	22	735	330041	67651	14705	51353	1593	18243953	20	11.08.2020
121	6213	1584	1449	28	735	336254	69236	14812	52802	1621	18291181	32	12.08.2020
122	6335	1091	1156	35	737	342589	70326	14712	53958	1656	18339625	25	13.08.2020
123	5673	1177	1142	27	750	348262	71503	14720	55100	1683	18396832	26	14.08.2020
124	5840	1073	1145	27	760	354102	72576	14621	56245	1710	18339625	25	15.08.2020
125	5707	1522	1412	29	760	359809	74098	14702	57657	1739			16.08.2020
126	4635	835	1049	46	765	364444	74993	14442	58706	1785	18496341	13	17.08.2020

127	5947	1224	1168	29	760	370391	76157	14469	59874	1814	18550103	23	18.08.2020
128	6690	1211	1089	35	815	377081	77368	14556	60963	1849	18606554	43	19.08.2020
129	6747	1669	1386	33	802	383828	79037	14806	62349	1882	18666239	11	20.08.2020
130	7208	1556	1570	35	793	391036	80593	14757	63919	1917	18721219	19	21.08.2020
131	6891	1577	1427	33	804	397927	82170	14874	65346	1950			22.08.2020
132	4868	1225	1243	38	803	402795	83395	14818	66589	1988	18745112	8	23.08.2020
133	5129	1101	1188	45	802	407924	84496	14686	67777	2033	18805573	11	24.08.2020
134	6370	1204	1123	44	796	414294	85700	14723	68900	2077	18860065	9	25.08.2020
135	6164	1617	1369	31	812	420458	87317	14940	70269	2108	18922309	11	26.08.2020
136	6092	1773	1680	38	818	426550	89090	14995	71949	2146	18978858		27.08.2020
137	6449	1781	1578	40	827	432999	90871	15158	73527	2168	19021470	24	28.08.2020
138	7047	1968	1657	46	834	440046	92839	15423	75184	2232	19078390	13	29.08.2020
139	5713	1658	1502	35	833	445759	94497	15544	76686	2267			30.08.2020
140	2847	876	1384	37	884	451053	95373	14999	78070	2304	19133020	15	31.08.2020
141	6753	1695	1419	28	890	457806	97068	15247	79489	2332			1.09.2020
142	6215	1627	1408	43	1040	464021	98695	15423	80897	2375	19187462	18	2.09.2020
143	6734	1764	1188	26	885	470755	100459	15973	82085	2401	19238992	21	3.09.2020
144	6723	1617	1830	30	891	477478	102076	15730	83915	2431	19289373	15	4.09.2020
145	6704	1736	1456	37	910	484182	103812	15973	85371	2468	19352873	16	5.09.2020
146	7235	3002	1569	44	910	491417	105905	16453	86940	2512			6.09.2020
147	3354	1144	1639	37	912	494771	107958	16830	88579	2549	19424644	12	7.09.2020
148	5486	1880	2022	35	912	500257	109838	16653	90601	2584	19494486	18	8.09.2020
149	7609	2078	2013	41	927	507866	111916	16677	92614	2625	19563344	20	9.09.2020
150	6795	1916	1838	43	940	514661	113832	16712	94452	2668	19631229	18	10.09.2020
151	6588	1938	1573	38	917	521249	115770	17039	96025	2706	19695290	19	11.09.2020
152	6626	1909	1464	42	910	527875	117679	17442	97489	2748	19777847		12.09.2020
153	6770	1978	1587	45	910	534645	119657	17788	99076	2793			13.09.2020
154	2807	867	1456	39	928	537452	120757	17393	100532	2832	19834500	11	14.09.2020
155	5494	1691	1563	43	929	542946	122448	17478	102095	2875	19915535	927	15.09.2020
156	7162	2120	1883	43	936	550108	124568	17672	103978	2918	20029671	694	16.09.2020
157	6549	1964	2219	45	939	556657	126532	17372	106197	2963	20141940	623	17.09.2020
158	6289	1891	1926	44	961	562946	128423	17293	108123	3007	20256835	540	18.09.2020
159	5919	1658	1248	39	957	568865	130081	17664	109371	3046	20368410	594	19.09.2020
160	6067	1787	1545	38	961	574932	131781	17781	110916	3084			20.09.2020
161	2697	884	1256	37	952	577629	132665	17372	112172	3171	20461365	418	21.09.2020
162	5215	1364	1614	46	957	582344	134029	17076	113786	3167	20566540	411	22.09.2020
163	6463	1789	1512	46	952	589307	135818	17037	115298	3213	20677300	442	23.09.2020
164	5642	1512	1328	42	957	594949	137330	17449	116626	3255	20784190	373	24.09.2020
165	6142	1621	1256	41	949	601091	138951	17773	117882	3296	20897671	432	25.09.2020
166	5503	1637	1695	36	932	606594	140588	17679	119577	3332	21017470	416	26.09.2020
167	5614	1548	1599	41	940	612208	142136	17587	121176	2273			27.09.2020
168	3212	779	1105	33	943	615420	142915	17228	122281	3406	21154867	410	28.09.2020
169	5678	1040	1548	40	938	621098	143955	16680	123829	3446	21296015	398	29.09.2020
170	6256	1336	1431	40	932	627354	145291	16545	125260	3486	21471586	340	30.09.2020
171	5260	1036	1170	42	913	632614	146327	16369	126430	3528	21665616	359	1.10.2020
172	5724	1024	1209	43	910	638338	147351	16141	127639	3571	21849695	259	2.10.2020
173	4682	1055	1286	38	895	643020	148406	15872	128925	3609	22045229	181	3.10.2020

174	4580	993	1428	38	899	647600	149399	15399	130353	3647	22232446	147	4.10.2020
175	1839	391	917	32	905	649439	149790	14841	131270	3679	22407901	217	5.10.2020
176	4334	643	1270	30	925	653773	150433	14184	132540	3709	22590136	296	6.10.2020
177	5438	969	1060	22	908	659211	151402	14071	133600	3731	22712823	136	7.10.2020
178	4932	798	805	32	869	664143	152200	14032	134405	3763	22827508	156	8.10.2020
179	4788	697	970	23	859	668931	152897	13736	135375	3786	22927437	133	9.10.2020
180	4231	703	1117	22	772	673162	153600	13300	136492	3808	23040037		10.10.2020
181	4269	630	1010	22	858	677431	154230	12898	137502	3830			11.10.2020
182	1920	351	950	14	856	679351	154581	12285	138452	3844			12.10.2020
183	4090	486	998	27	833	683441	155067	11746	139450	3871			13.10.2020
184	4495	528	1413	28	839	687936	155595	10833	140863	3899			14.10.2020
185	4220	549	825	21	835	692156	156144	10536	141688	3920			15.10.2020
186	3393	489	681	21	838	695549	156633	10323	142369	3941			16.10.2020
187	3509	418	860	23	827	699058	157051	9858	143229	3964			17.10.2020
188	3066	366	698	19	821	702124	157417	9507	143927	3983			18.10.2020
189	1497	214	505	18	799	703621	157631	9198	144432	4001			19.10.2020
190	2809	328	904	21	779	706430	157959	8601	145336	4022			20.10.2020
191	3581	428	758	23	750	710011	158387	8248	146094	4045			21.10.2020
192	3518	369	818	21	708	713529	158756	7778	146912	4066			22.10.2020
193	3457	321	730	20	684	716986	159077	7349	147642	4086			23.10.2020
194	2883	329	774	19	685	719869	159406	6885	148416	4105			24.10.2020
195	2516	292	454	17	668	722385	159698	6706	148870	4122			25.10.2020
196	1027	147	410	19	639	723412	159845	6424	149280	4141			26.10.2020
197	2331	241	639	22	620	725743	160086	6004	149919	4163			27.10.2020
198	3035	288	441	17	605	728778	160374	5834	150360	4180			28.10.2020
199	2604	303	463	15	581	731382	160677	5659	150823	4195			29.10.2020
200	2970	284	322	16	584	734352	160961	5605	151145	4211			30.10.2020
201	2526	373	350	16	576	736878	161334	5612	151495	4227			31.10.2020
202	2587	377	240	17	579	739465	161711	5732	151735	4244			1.11.2020
203	1176	133	154	15	546	740641	161844	5696	151889	4259			2.11.2020
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218	1157	163	110	6	383	771136	165042	4176	156471	4395			17.11.2020
219	2743	384	168	6	392	773879	165426	4290	156639	4401			18.11.2020
220	3329	411	316	6	385	777208	165837	4475	156955	4407			19.11.2020

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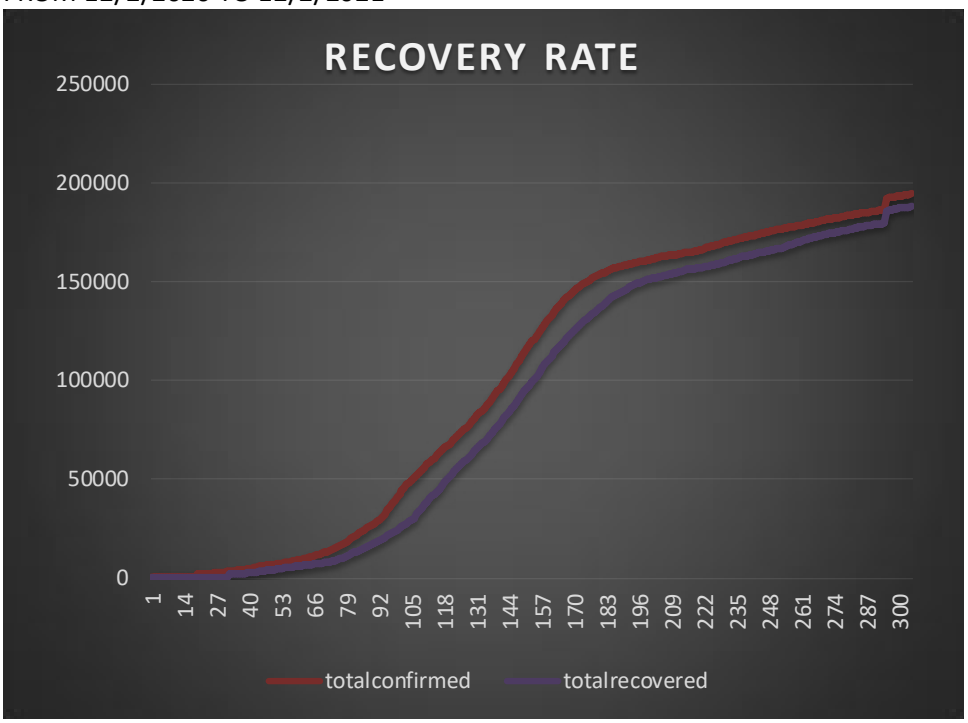
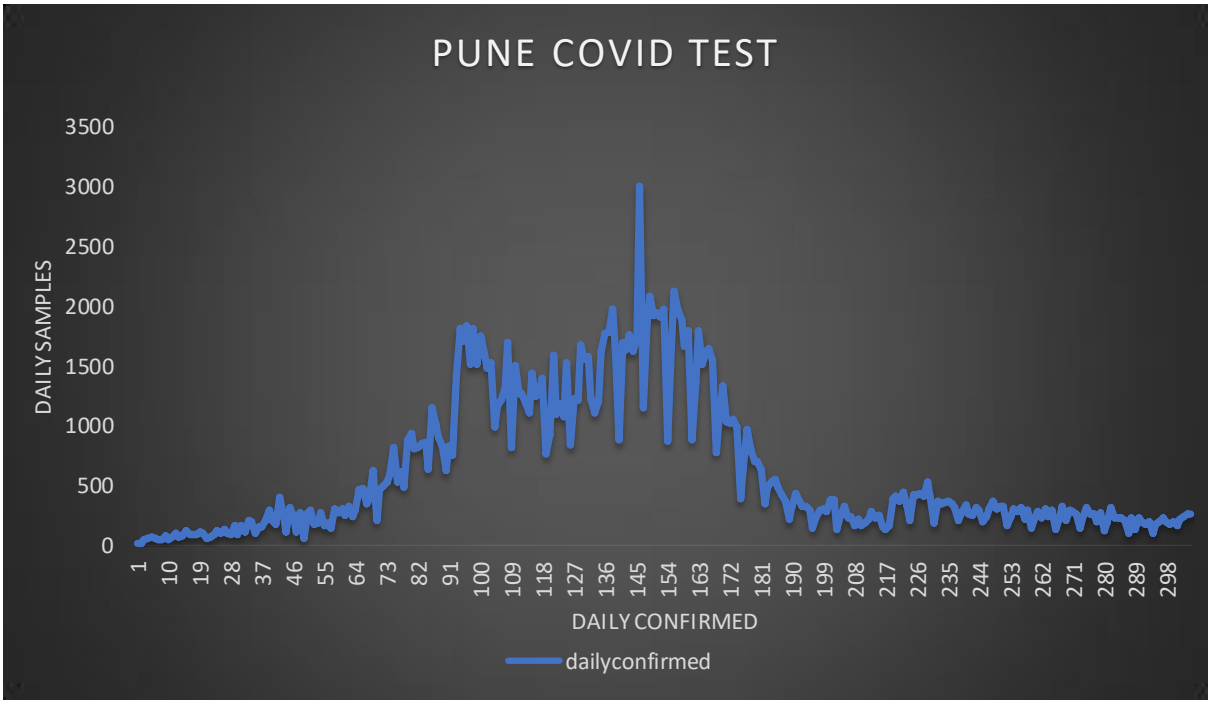
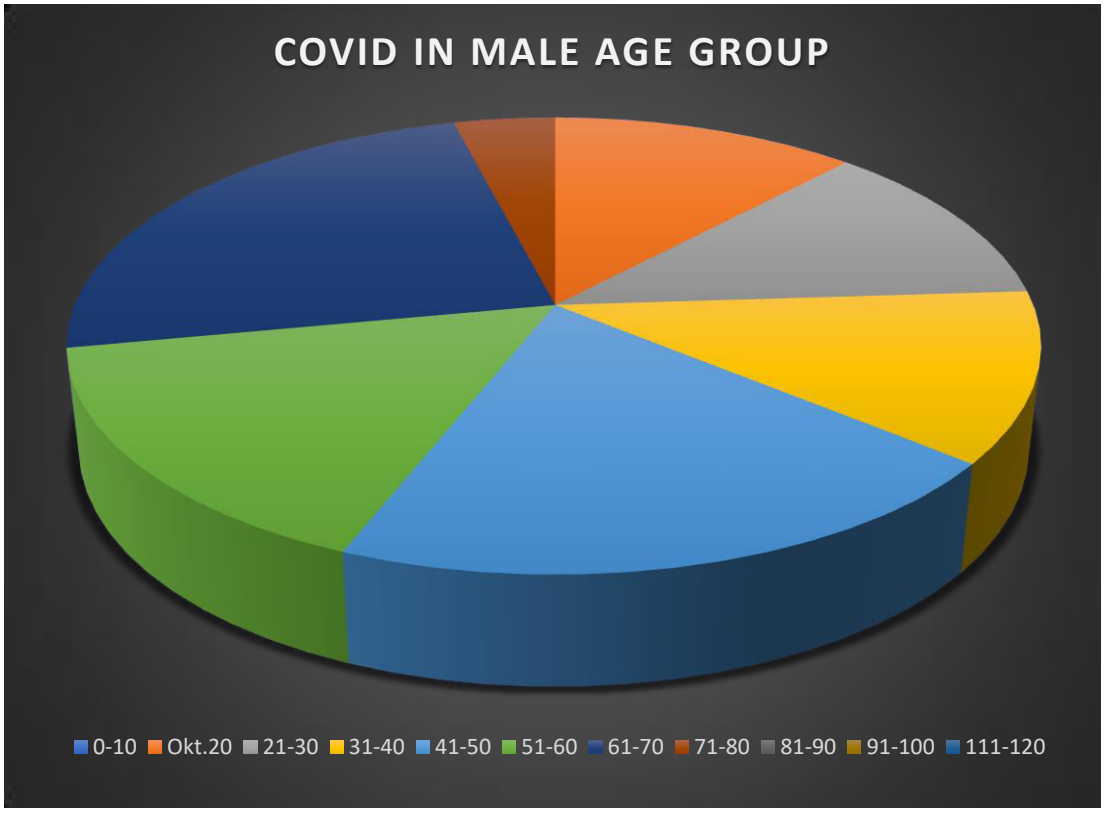
FROM 12/2/2020 TO 12/2/2021

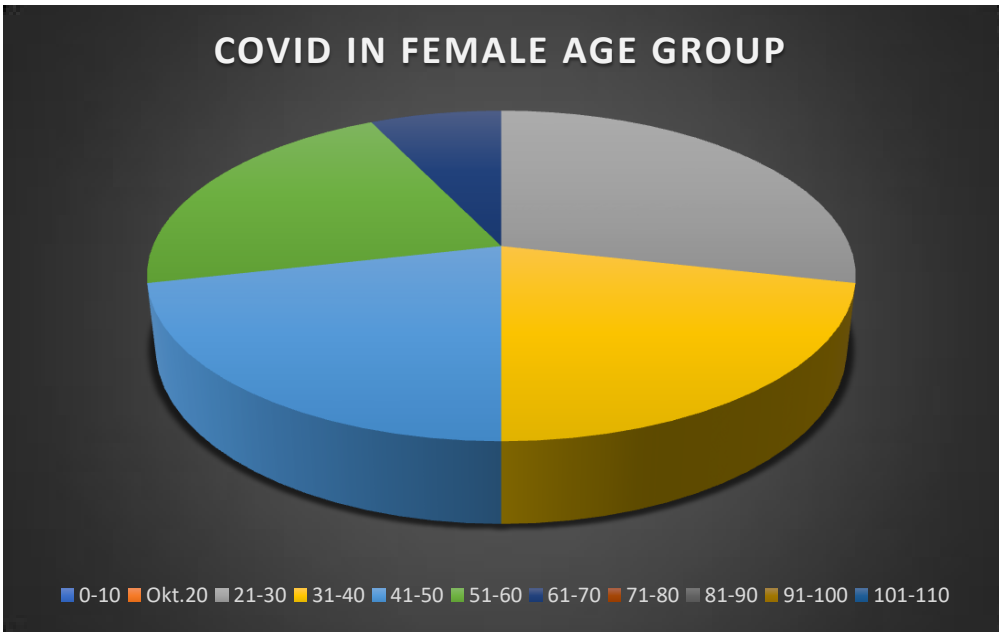


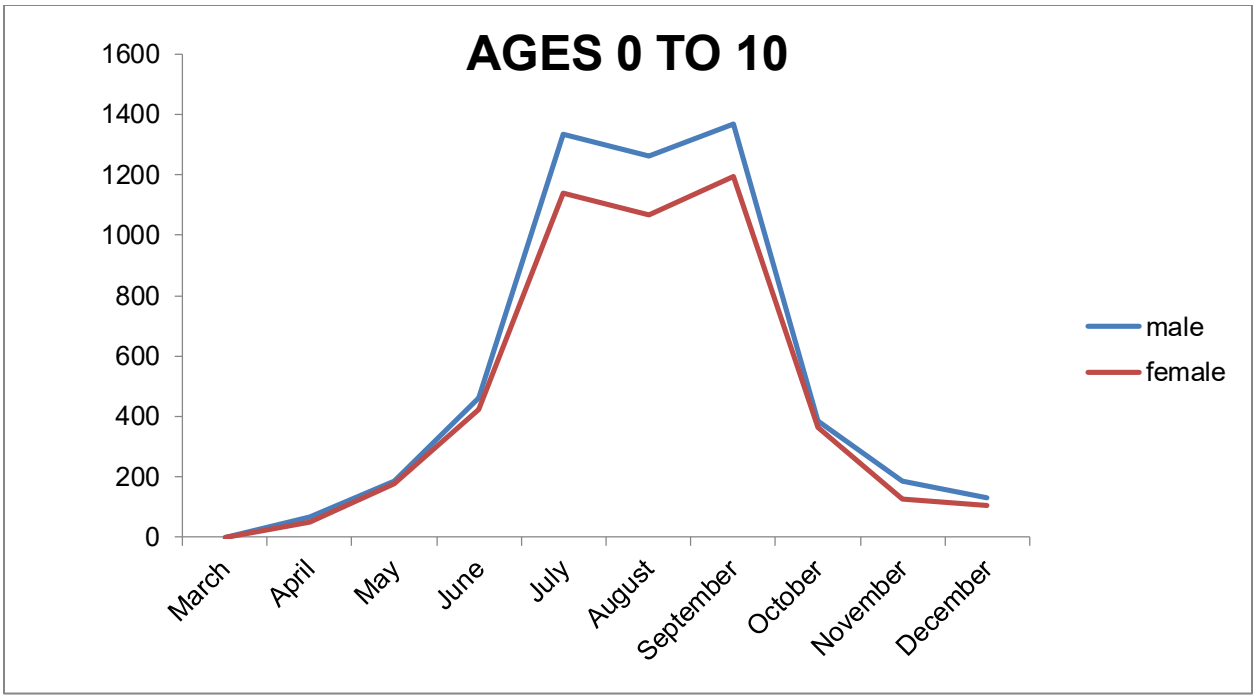


Male Age Group	March	April	May	June	July	August	September	October	Novembe	December	Grand Total
0-10	NA	69	187	461	1334	1261	1367	384	187	131	5381
Okt.20	3	107	310	850	2108	1959	2159	632	297	243	8668
21-30	3	185	676	1552	4620	4451	5593	1698	790	623	20191
31-40	3	169	653	1645	5139	5805	7381	2109	1118	847	24869
41-50	5	142	489	1235	3751	4345	5445	1606	912	594	18524
51-60	4	94	373	960	2900	3372	4392	1310	729	559	14693
61-70	6	73	205	601	1862	2170	2780	873	438	410	9418
71-80	1	36	112	272	774	1032	1341	477	252	204	4501
81-90	NA	9	26	63	219	286	393	106	72	47	1221
91-100	NA	NA	3	5	23	32	36	10	3	2	114
111-120	NA	NA	NA	NA	NA	1	NA	1	NA	NA	2
Grand Total	**25**	**884**	**3034**	**7644**	**####**	**24714**	**30887**	**9206**	**4798**	**3660**	**107582**



Female Age Group	March	April	May	June	July	August	September	October	November	December	Grand Total
0-10	NA	49	176	423	1138	1067	1196	364	128	104	4645
Okt.20	NA	90	307	665	1692	1419	1687	510	247	178	6795
21-30	4	149	522	1247	3495	3210	4115	1244	622	526	15134
31-40	3	144	473	1158	3440	3686	4677	1339	735	554	16209
41-50	3	119	368	978	2841	2740	3734	1073	599	472	12927
51-60	3	89	314	748	2312	2344	3162	929	550	422	10873
61-70	1	57	209	471	1326	1570	2007	646	331	297	6915
71-80	NA	19	62	194	549	672	976	299	180	118	3069
81-90	NA	NA	22	53	142	187	239	60	53	46	802
91-100	NA	1	5	7	14	19	33	7	9	1	96
101-110	NA	NA	NA	NA	NA	1	NA	NA	1	NA	2
Grand Total	**14**	**717**	**2458**	**5944**	**16949**	**16915**	**21826**	**6471**	**3455**	**2718**	**77467**

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1400
1200
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March
April
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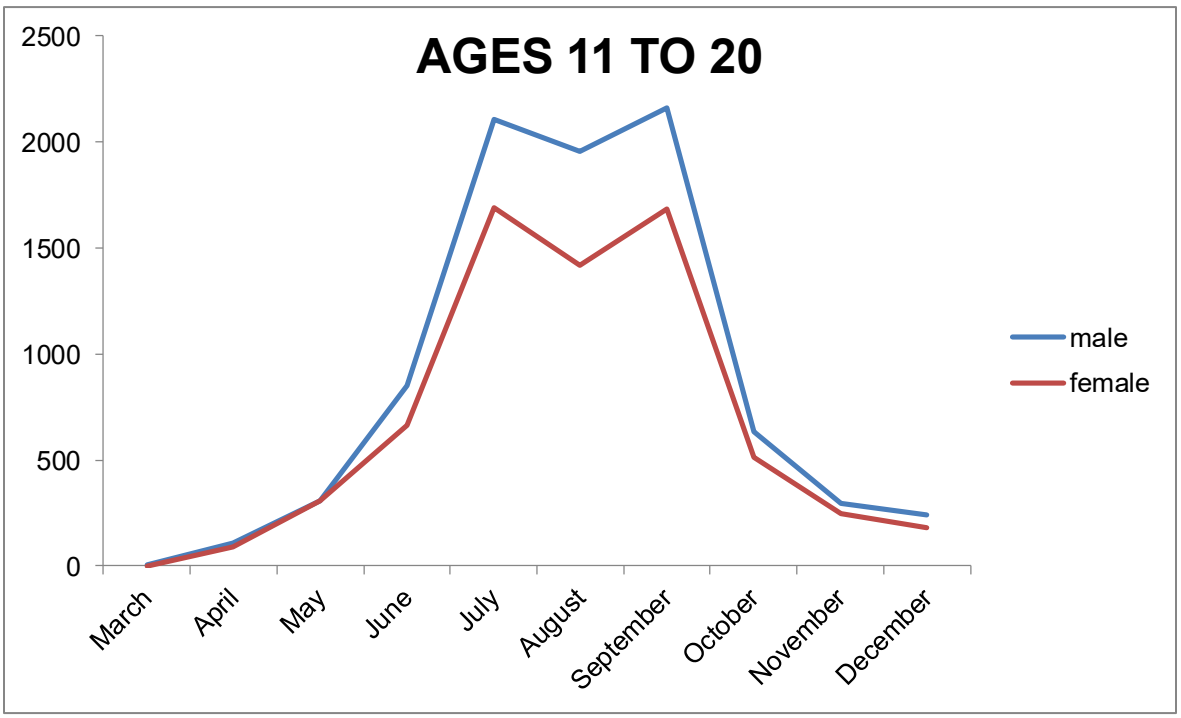
December
male
female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1500
1000
500
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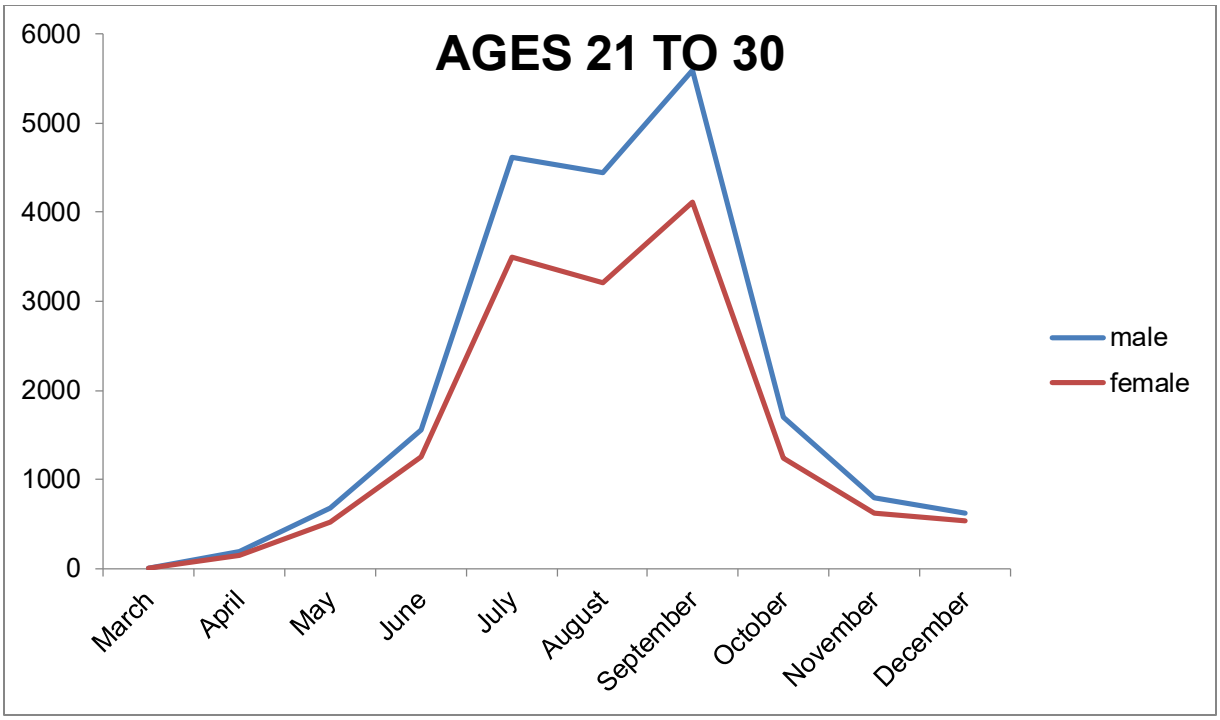
November
December
male
female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December
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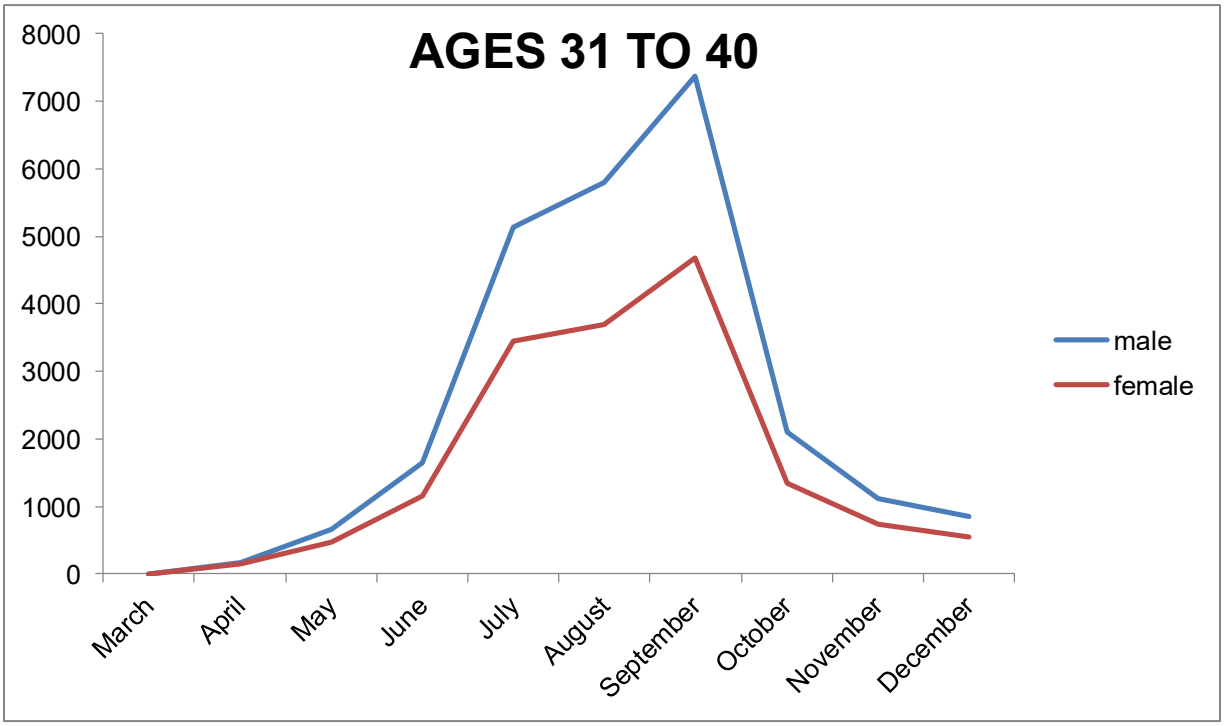
female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December
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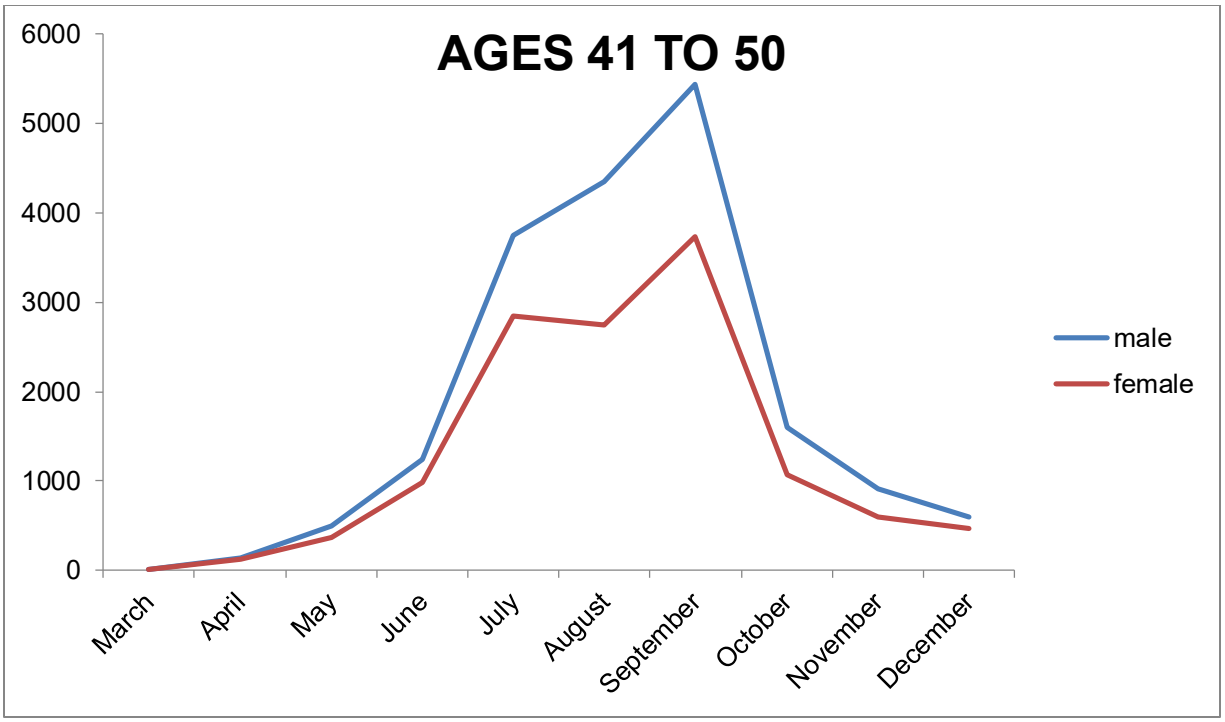
female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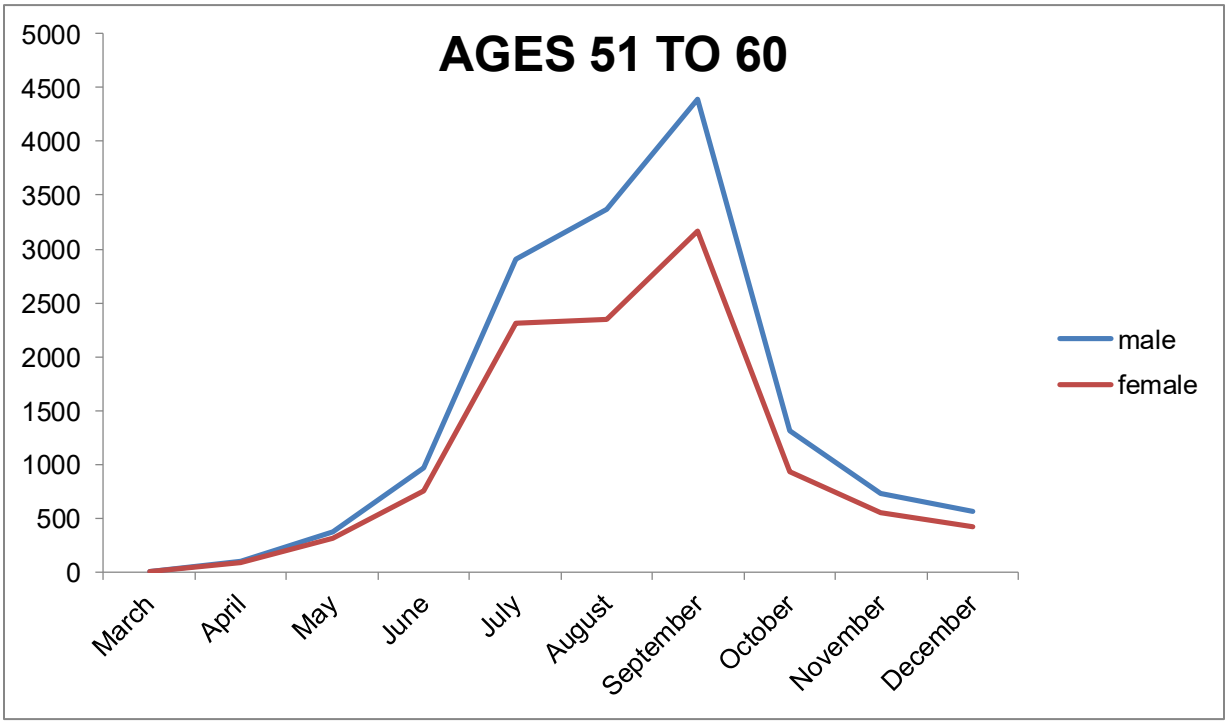
female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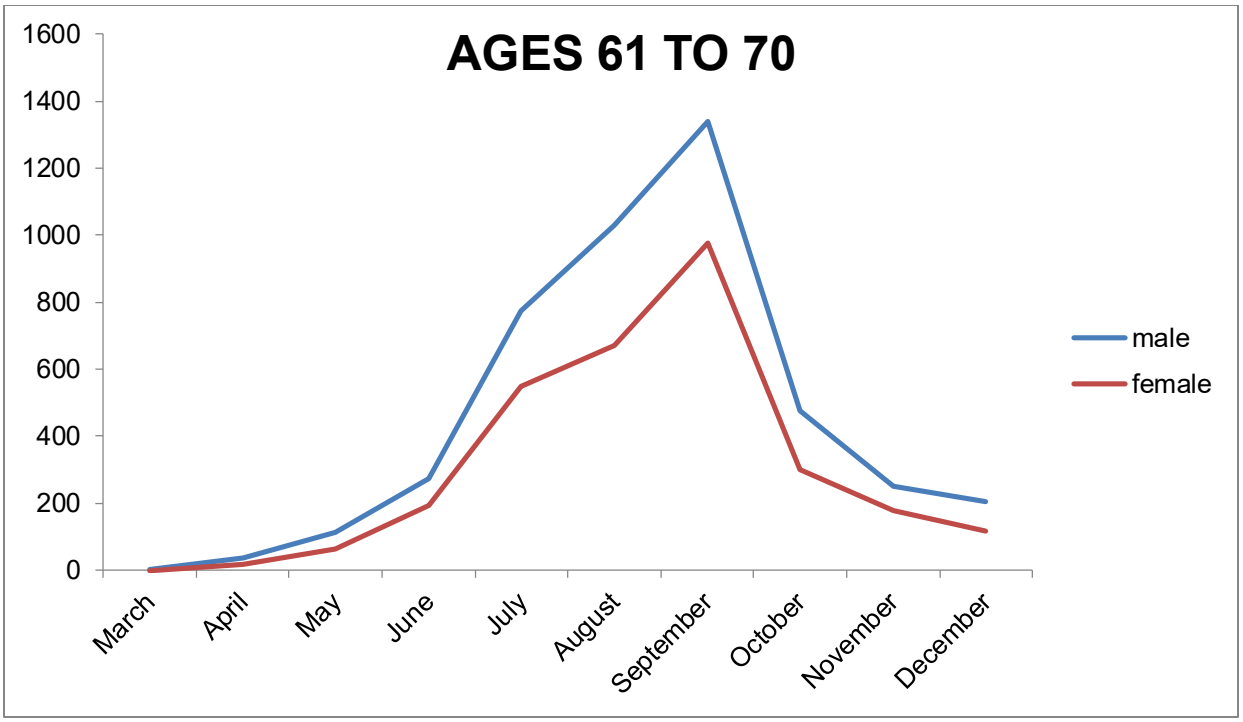
male
female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December
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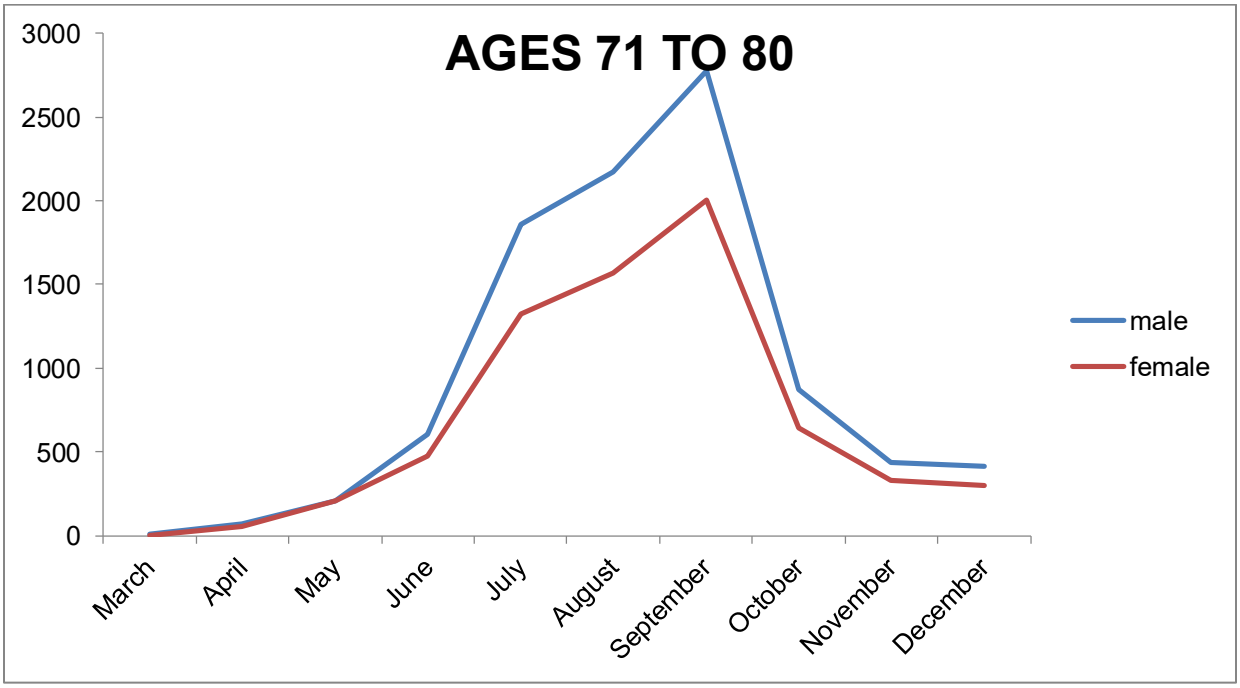
female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December
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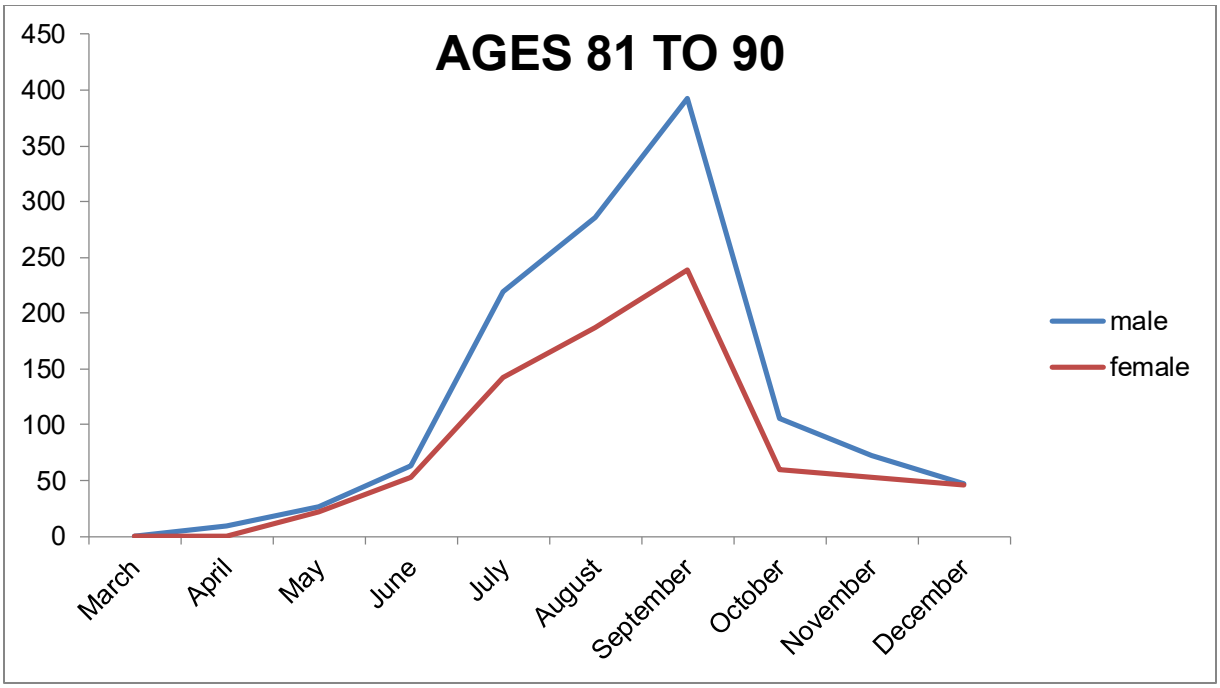
female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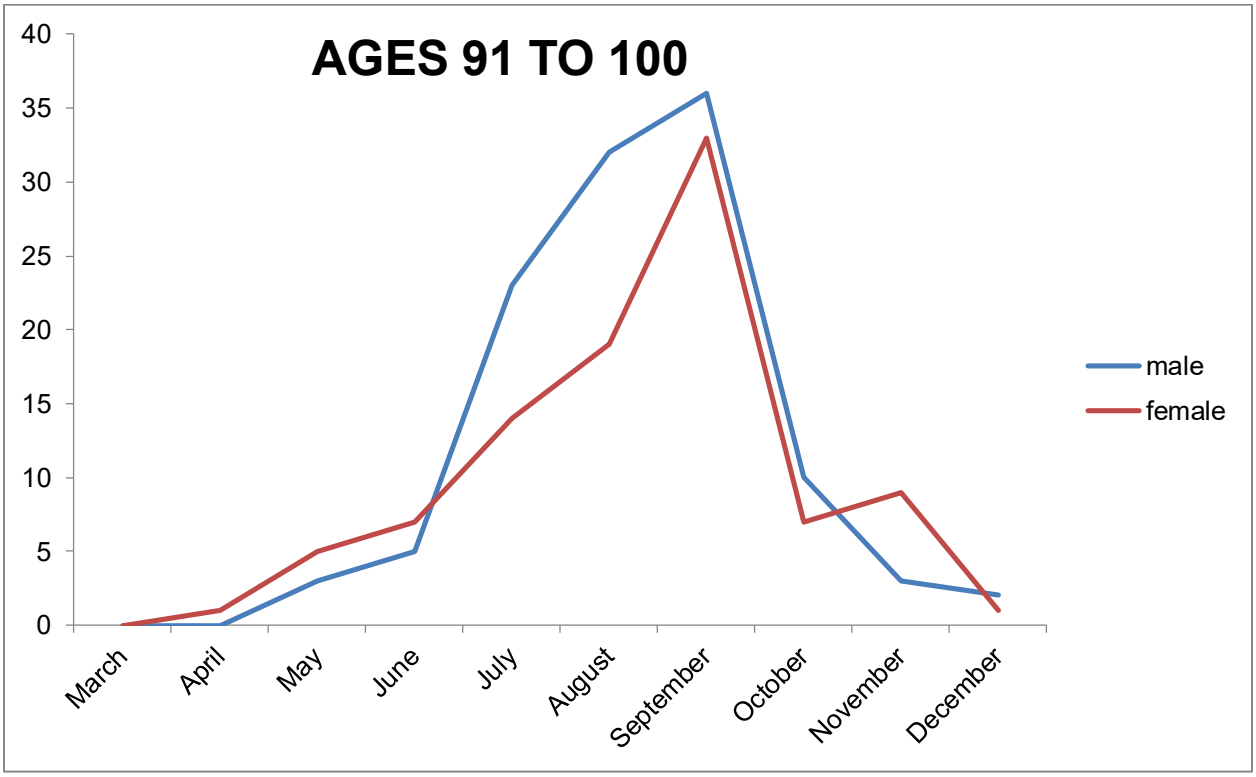
November
December
male
female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40
35
30
25
20
15
10
5
0
March
April
May
June
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August
September
October
November
December
male
female

A Report on

Covid-19 Data Analysis in Maharashtra

T.Y.B.Sc. Academic Year- 2020-21

Date: 30/04/2021

Author:

Atharva Rajendra Madure

Guided by:

Prof.Kundalik Shende

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1. About Covid-19:

1.1 Information about Covid19 (Reference: Wikipedia) (https://en.wikipedia.org/wiki/COVID-19)

Coronavirus disease 2019 (COVID-19), also known as the coronavirus or COVID, is a contagious disease caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The first known case was identified in Wuhan, China, in December 2019. The disease has since spread worldwide, leading to an ongoing pandemic.

Symptoms of COVID-19 are variable but often include fever, cough, headache,[10] fatigue, breathing difficulties, and loss of smell and taste. Symptoms may begin one to fourteen days after exposure to the virus. At least a third of people who are infected do not develop noticeable symptoms. Of those who develop noticeable symptoms enough to be classed as patients, most (81%) develop mild to moderate symptoms (up to mild pneumonia). In comparison, 14% develop severe symptoms (dyspnea, hypoxia, or more than 50% lung involvement on imaging), and 5% suffer acute symptoms (respiratory failure, shock, or multiorgan dysfunction). Older people are at a higher risk of developing severe symptoms. Some people continue to experience a range of effects (long COVID) for months after recovery, and damage to organs has been observed. Multi-year studies are underway to investigate the long-term effects of the disease further.

Transmission of COVID-19 occurs mainly when an infected person is in close contact[a] with another person. Tiny droplets containing the virus can spread from an infected person's nose and mouth as they breathe, cough, sneeze, sing, or speak. Other people are infected if the virus gets into their mouth, nose, or eyes. Airborne transmission is also sometimes possible, as smaller infected droplets and particles can linger in the air for minutes to hours within enclosed spaces with inadequate ventilation. Less commonly, the virus may spread via contaminated surfaces. People who are infected can transmit the virus to another person up to two days before they show symptoms, as can people who do not experience symptoms. People remain infectious for up to ten days after the onset of moderate cases and up to twenty days in severe cases.

Several testing methods have been developed to diagnose the disease. The standard diagnostic method is by detection of the virus' nucleic acid by real-time reverse transcription-polymerase chain reaction (RRT-PCR), transcription-mediated amplification (TMA), or by reverse transcription loop-mediated isothermal amplification (RT-LAMP) from a nasopharyngeal swab.

Preventive measures include physical or social distancing, quarantining, ventilation of indoor spaces, covering coughs and sneezes, hand washing, and keeping unwashed hands away from the face. The use of face masks or coverings has been recommended in public settings to minimize the risk of transmissions. Several vaccines have been developed, and many countries have initiated mass vaccination campaigns.

Although work is underway to develop drugs that inhibit the virus, the primary treatment is symptomatic. Management involves the treatment of symptoms, supportive care, isolation, and experimental measures.

1.2 Symptoms:

Symptoms may appear 2-14 days after exposure to the virus. People with these symptoms may have COVID-19:

- Fever or chills
- Cough
- Shortness of breath or difficulty breathing
- Fatigue
- Muscle or body aches
- Headache
- New loss of taste or smell
- Sore throat
- Congestion or runny nose
- Nausea or vomiting
- Diarrhea

Look for emergency warning signs for COVID-19. If someone is showing any of these signs, seek emergency medical care immediately:

- Trouble breathing
- Persistent pain or pressure in the chest
- New confusion
- Inability to wake or stay awake
- Pale, gray, or blue-colored skin, lips, or nail beds, depending on skin tone

1.3 Prevention:

To help prevent the spread of COVID-19:

- Get a COVID-19 vaccine when it's available to you.
- Wear a mask to protect yourself and others and stop the spread of COVID-19.
- Stay at least 6 feet (about 2 arm lengths) from others who don't live with you.
- Avoid crowds and poorly ventilated spaces. The more people you are in contact with, the more likely you will be exposed to COVID-19.
- Clean your hands often, either with soap and water for 20 seconds or a hand sanitizer that contains at least 60% alcohol.
- Avoid close contact with people who are sick.
- Cover your cough or sneeze with a tissue, then throw the tissue in the trash.
- Clean and disinfect frequently touched objects and surfaces daily.
- Monitor your health daily.

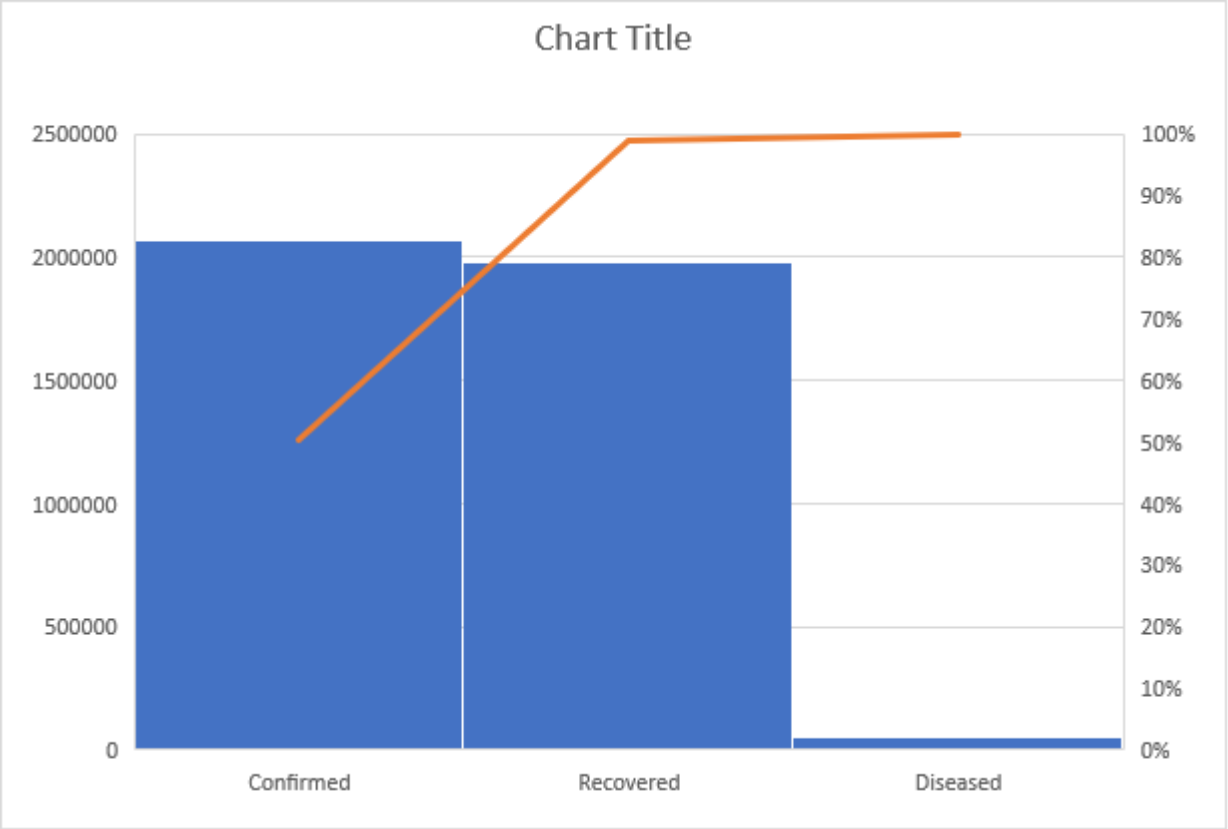
2. Introduction:

This report aims to give statistical data analysis of Covid19 in Maharashtra and Pune (region-wise). This analysis aims to monitor data in excel and perform graphical analysis and interpret the graphs. The data is collected from Google and contains information of a year. The data consists of over 1000 terms of total cases confirmed, of which total recovered and total deceased. Firstly, a complete analysis of cases in Maharashtra is given, and then the monthly analysis is presented with the help of graphs. Finally, the latest analysis of Pune is done region-wise, and a summary is given.

2.2 Abstract

COVID-2019 has been recognized as a global threat, and several studies are being conducted to contribute to the fight and prevention of this pandemic. This work presents a scholarly production dataset focused on COVID-19, providing an overview of scientific research activities, making it possible to identify countries, scientists, and research groups most active in this task force to combat the coronavirus disease. Statistical data analysis can give many insights and can be used to take proper action. This data will give the month-wise analysis so that future prevention steps can be taken with proper care. MS Excel is used to plot graphs and is presented in this report.

3. Analysis of Confirmed, Recovered, and Deceased cases in Maharashtra

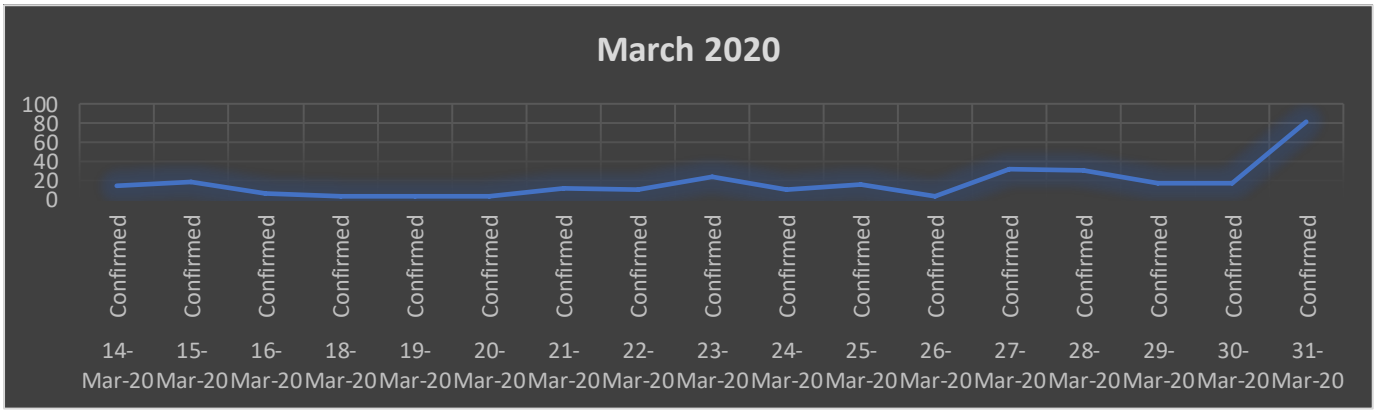


As can be seen from the analysis, the total number of cases, totally recovered and total deceased, is given in Pareto analysis. The deceased people are significantly less, but with proper prevention, that number can further be minimized. Additionally, it shows a positive trend that the number of cases recovered is significantly high compared to the deceased. On the contrary, the number of confirmed cases is very high and should be reduced as early as possible to stop the spread of covid 19.

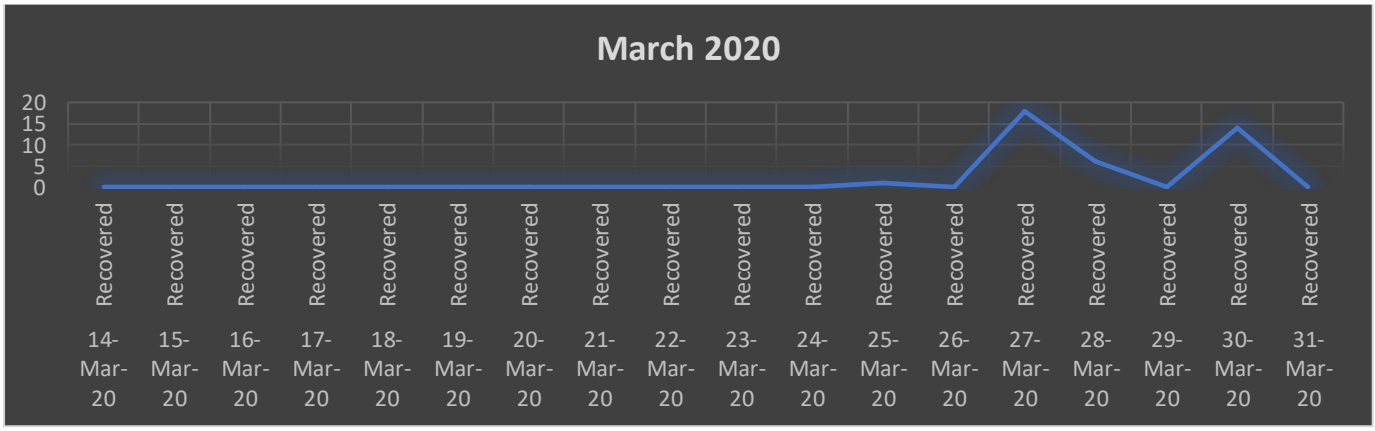
4. Month wise Analysis of Confirmed, Recovered, and Deceased Cases in Maharashtra

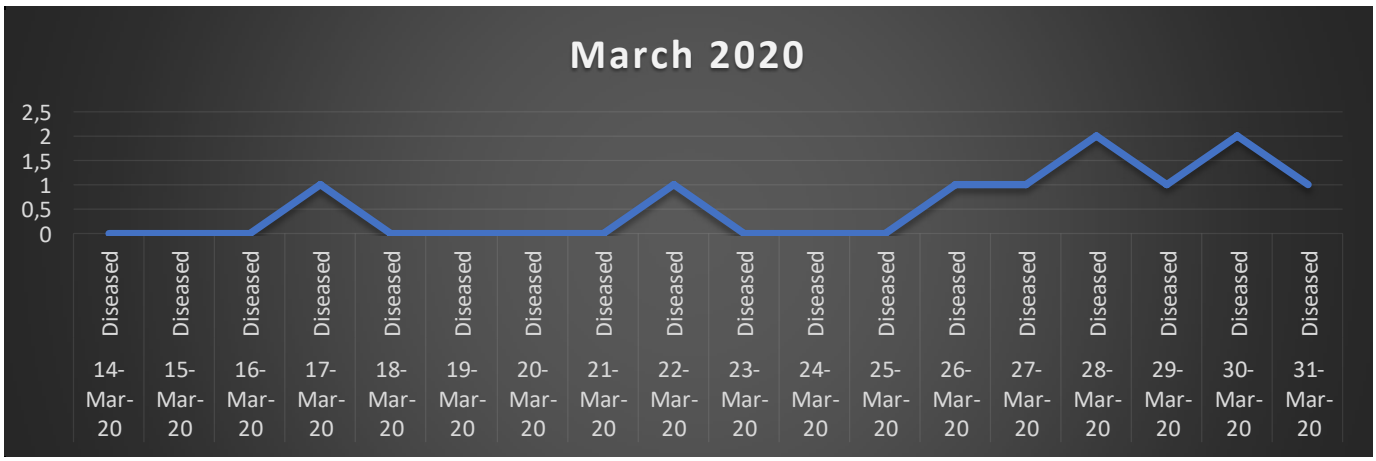
March 2020

Total confirmed cases



Total recovered cases



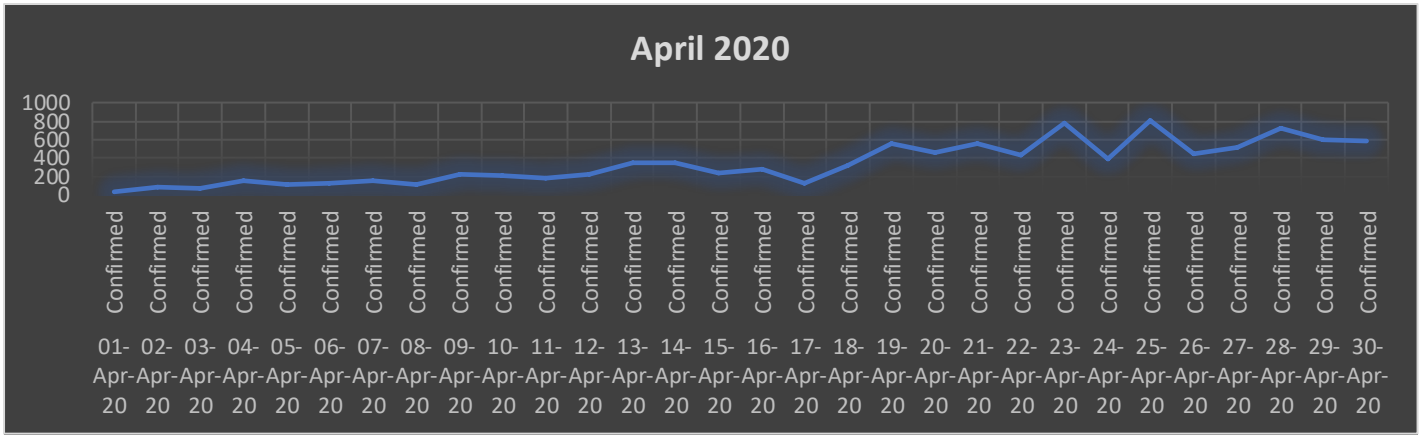


Total deceased cases

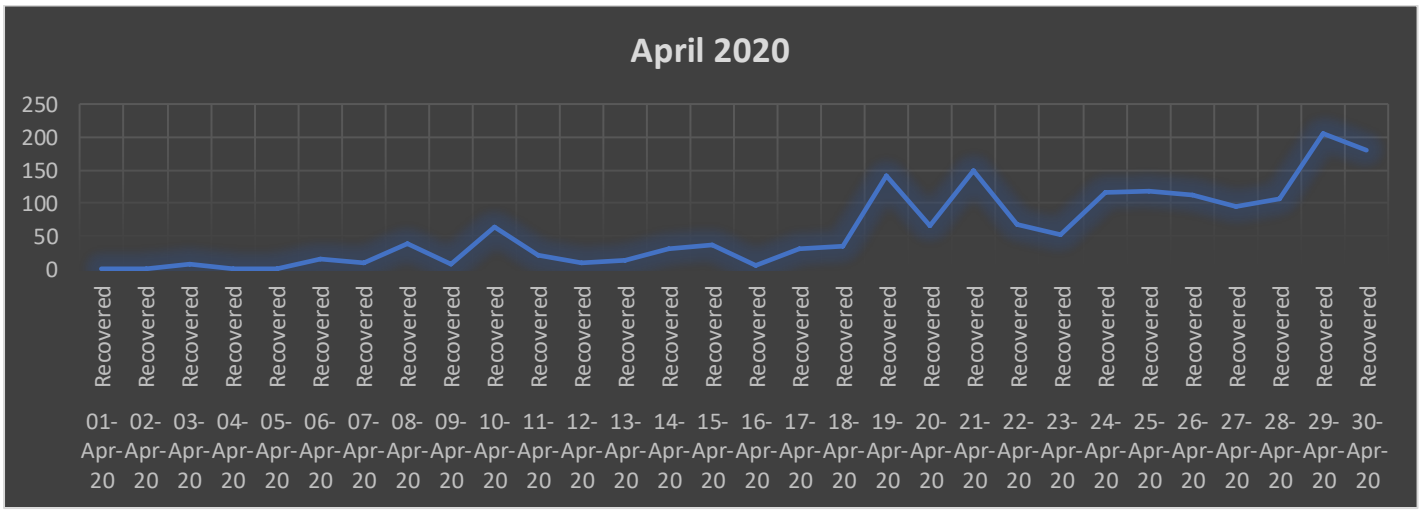
As can be seen from the March month analysis, confirmed cases are increasing, the recovery rate is constant in the start but is increased towards month-end. Deceased cases also increase at the end.

April 2020

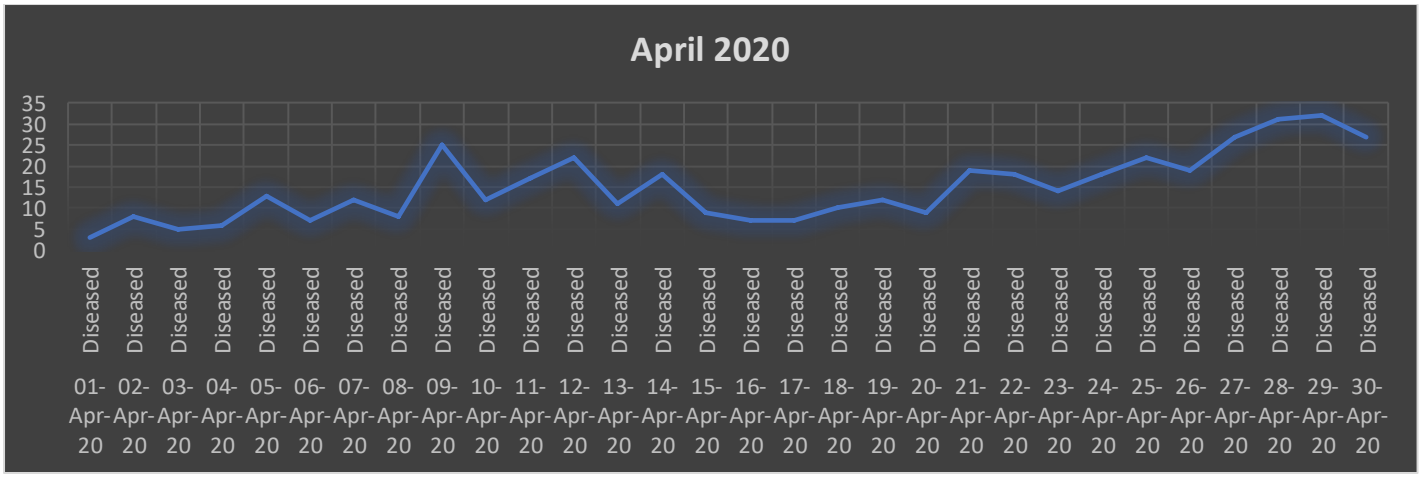
Total confirmed cases



Total recovered cases



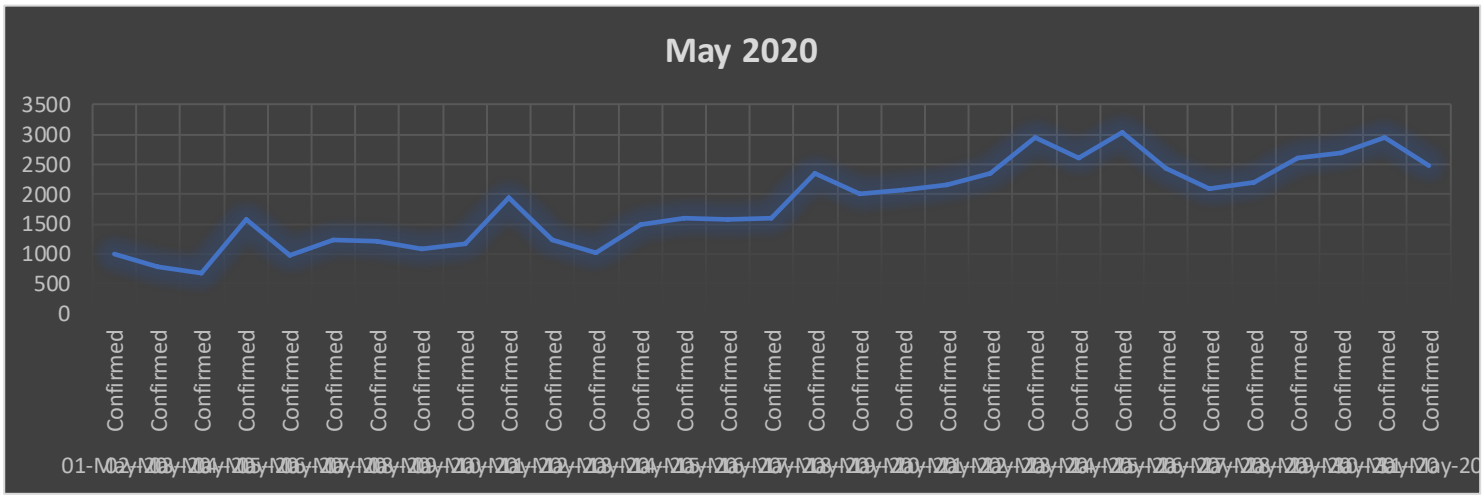
Total Deceased cases



The confirmed cases continue to increase, so as the deceased rate. The recovery rate increase at the end, however, is constant at the start. The deceased rate increases suddenly near the month-end.

May 2020

Total confirmed cases

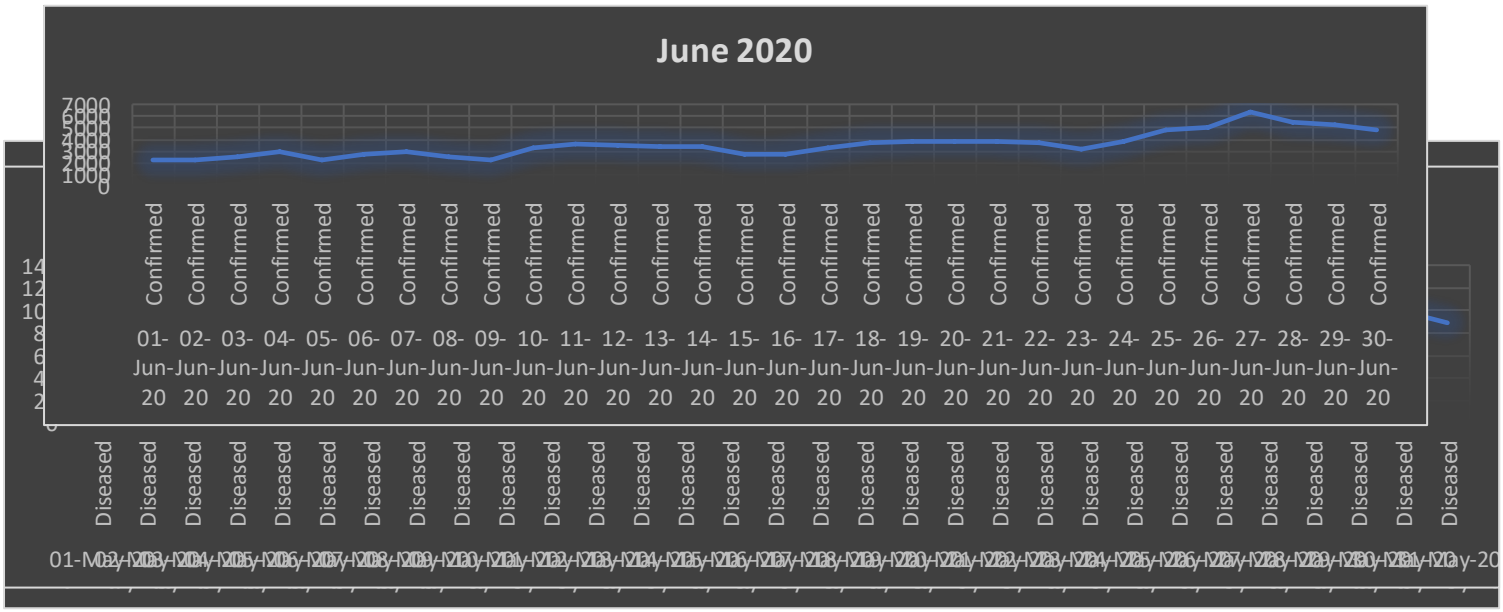


Total recovered cases

Total Deceased cases

As shown from the above analysis, the confirmed cases graph increases at a high rate and the recovered case rate has a high peak near the month end but is almost constant throughout the month. The deceased rate, however, increases continuously.

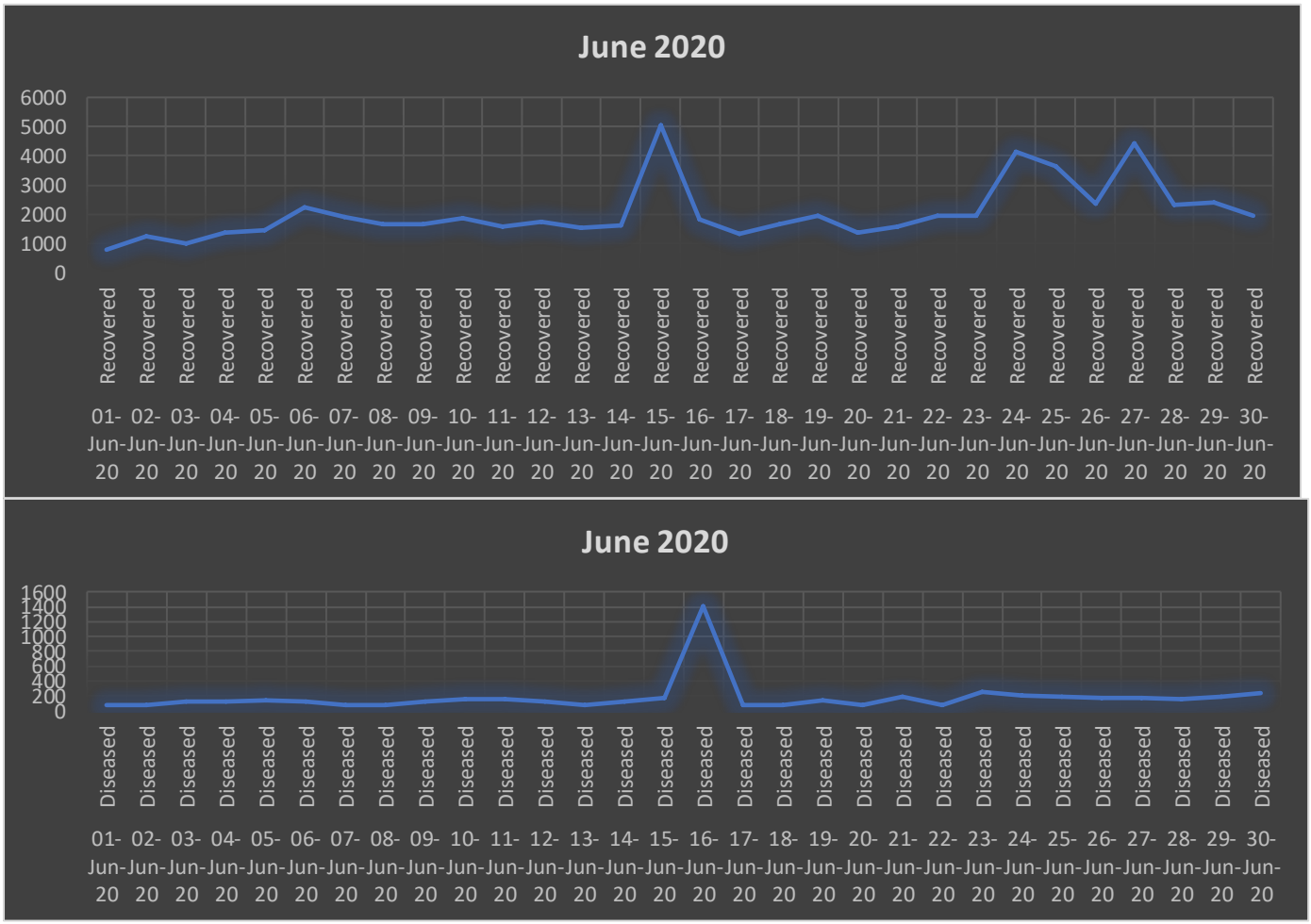
June 2020



Total confirmed cases

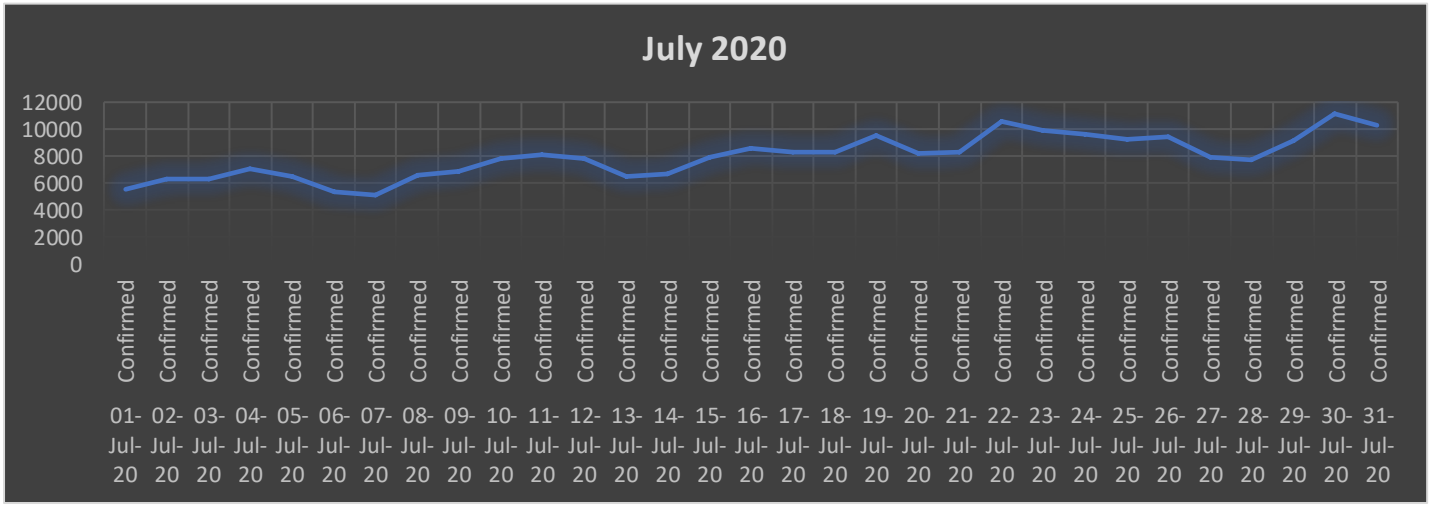
Total recovered cases

Total deceased cases



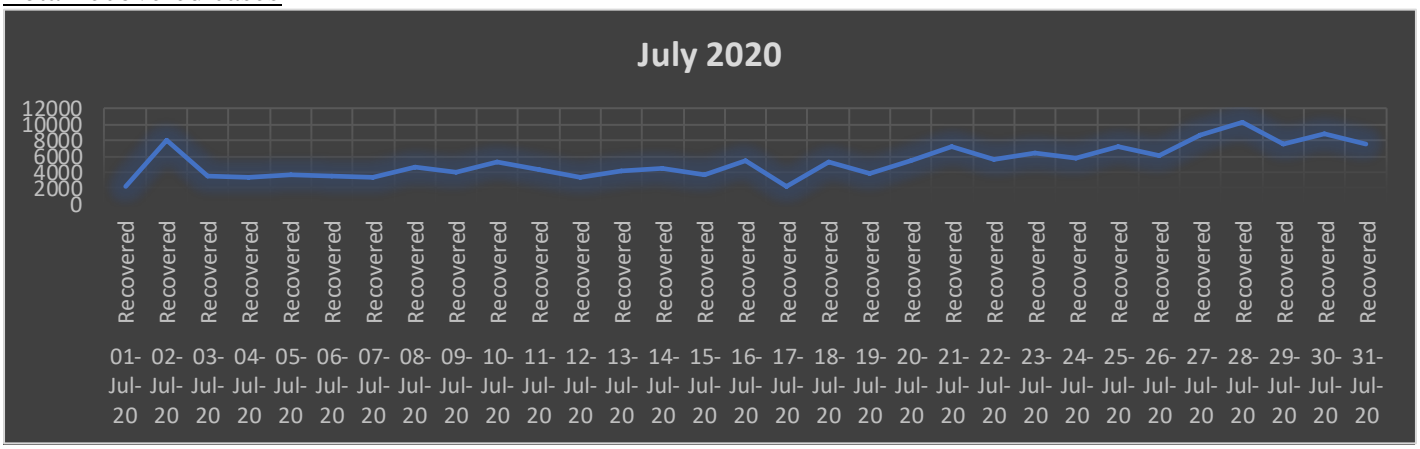
The recovered cases in June increase till mid the month and then decrease and then follow the same increase decrease pattern. The deceased rate increases suddenly during mid-June and are constant for the rest of the month.

July 2020

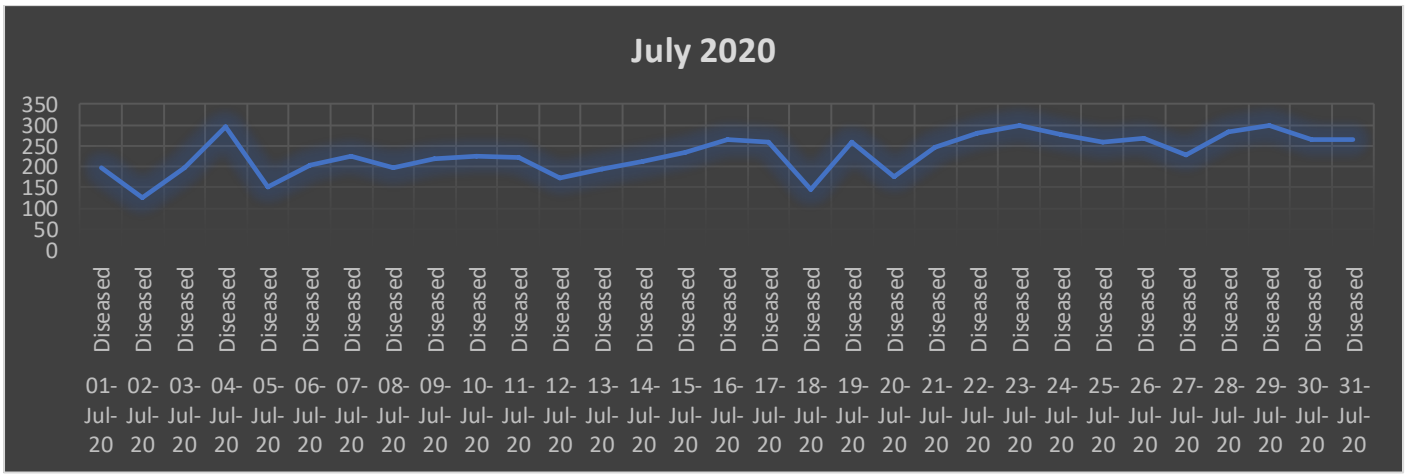


Total confirmed cases

Total recovered cases



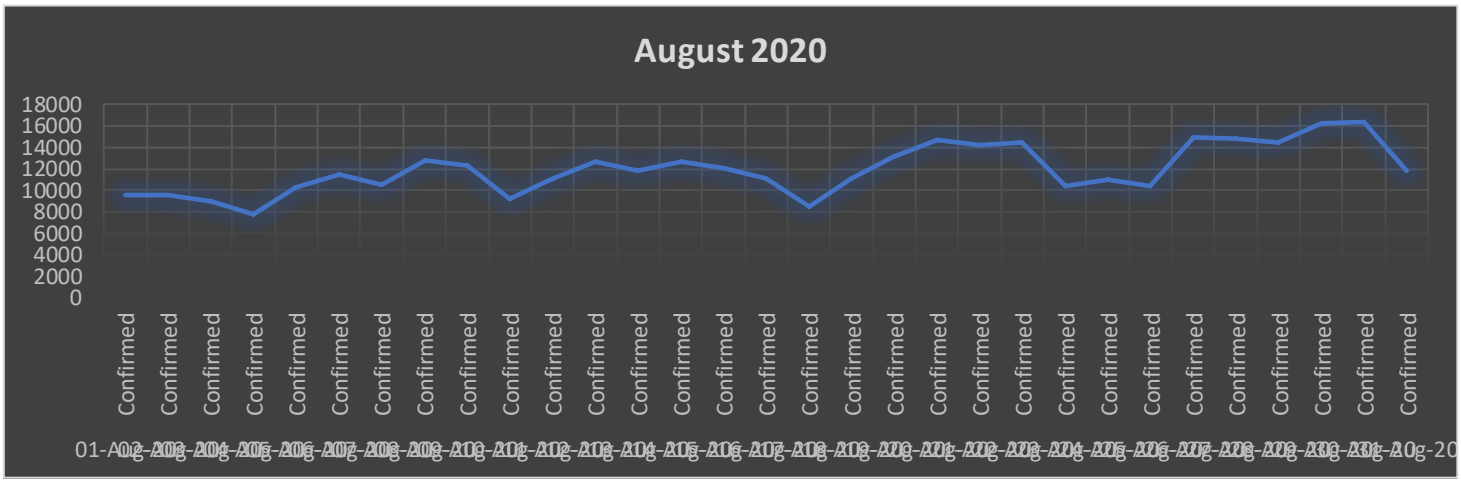
Total deceased cases



The July month sees a lot of ups and downs in the recovered and deceased cases. The confirmed cases increase steadily. The recovered cases increase at a reasonable rate throughout the month.

August 2020

Total confirmed cases



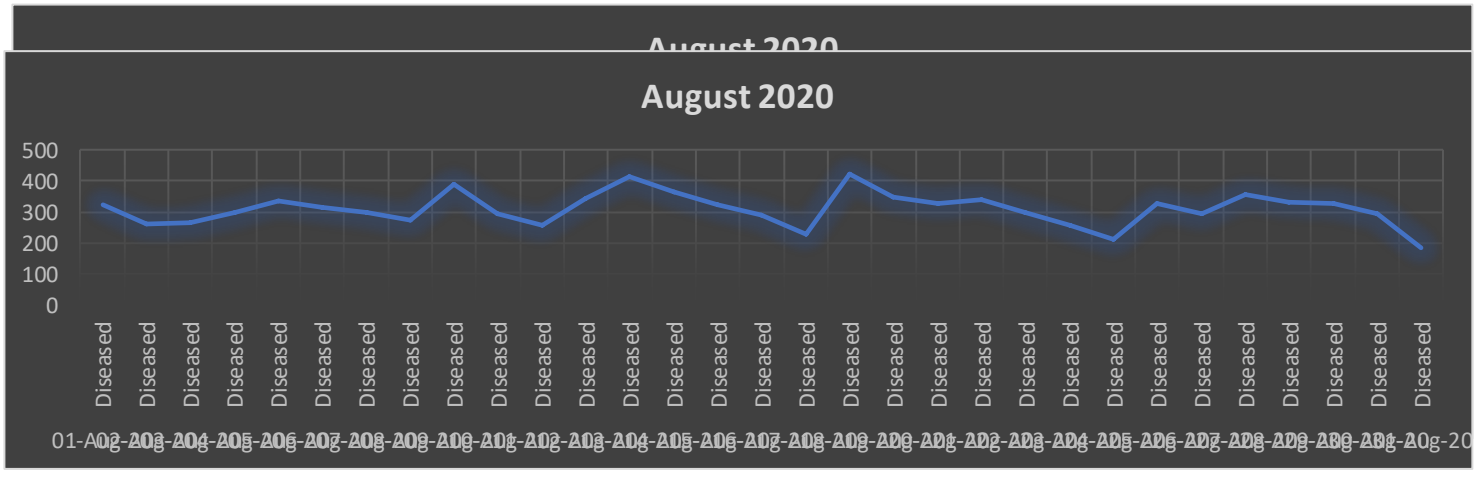
Total recovered cases

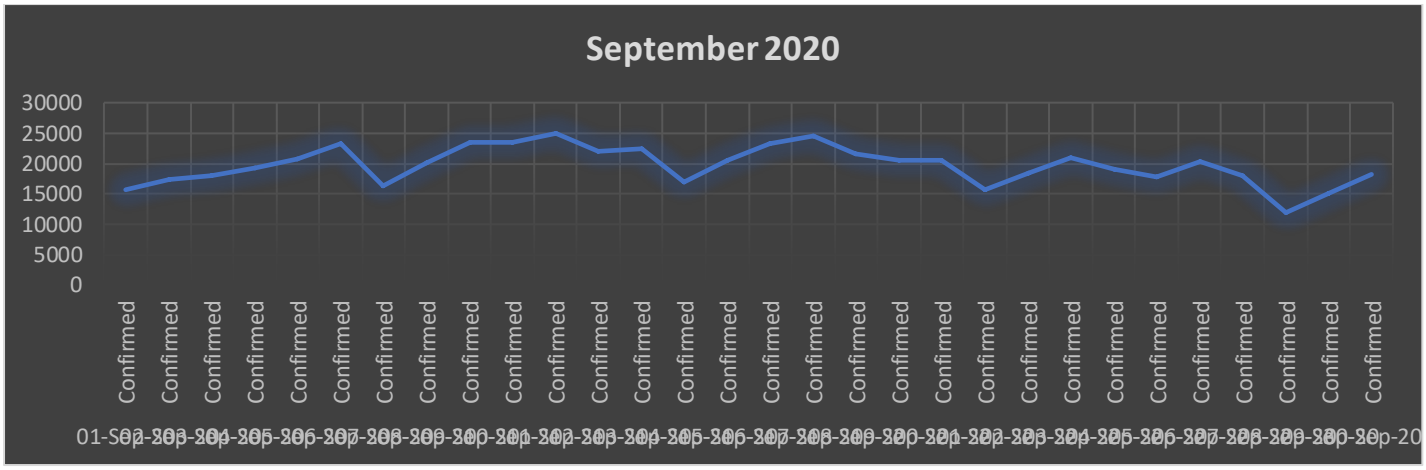
Total deceased cases

The deceased rate decreases gradually in August, and the recovery rate has high fluctuations throughout the month. The confirmed cases increase at a high rate near the end of the month.

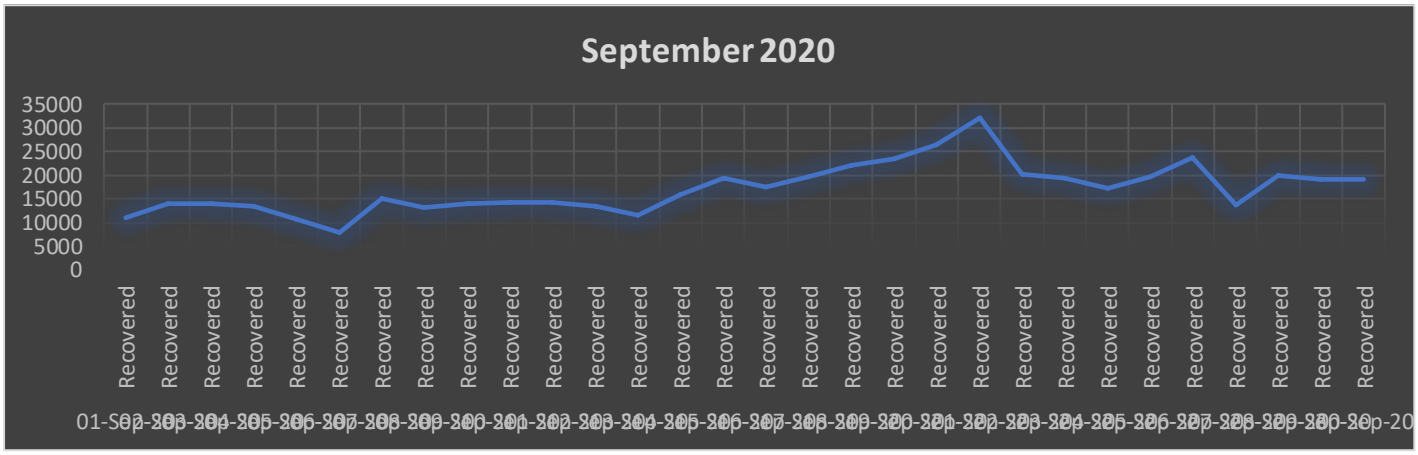
September 2020

Total confirmed cases

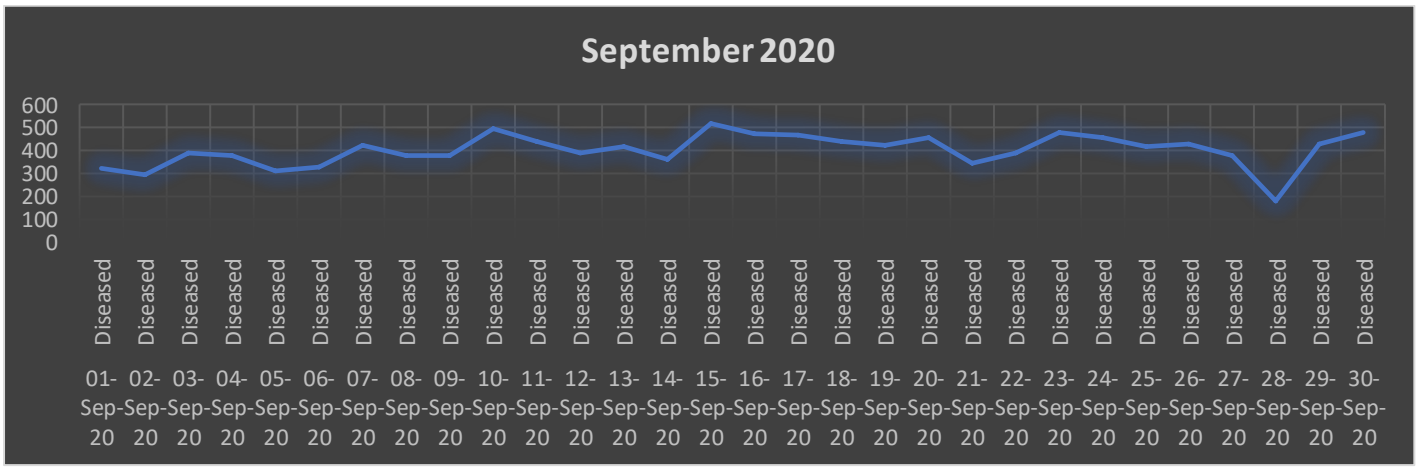




Total recovered cases



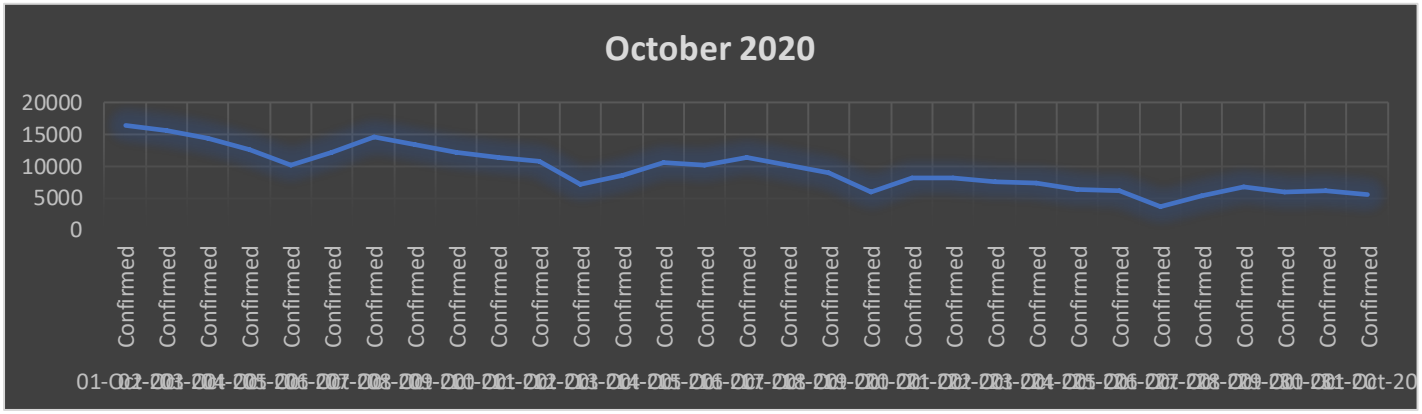
Total deceased cases



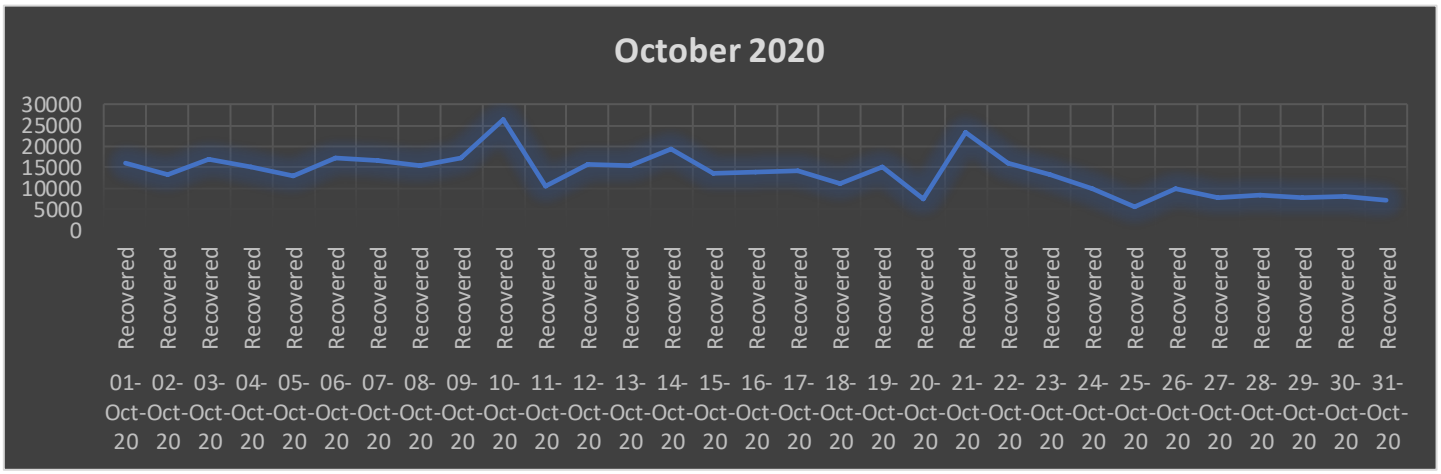
The confirmed cases decrease steadily, and the recovery rate increases at a reasonable rate. Additionally, the deceased rate decreases towards the end of the month.

October 2020

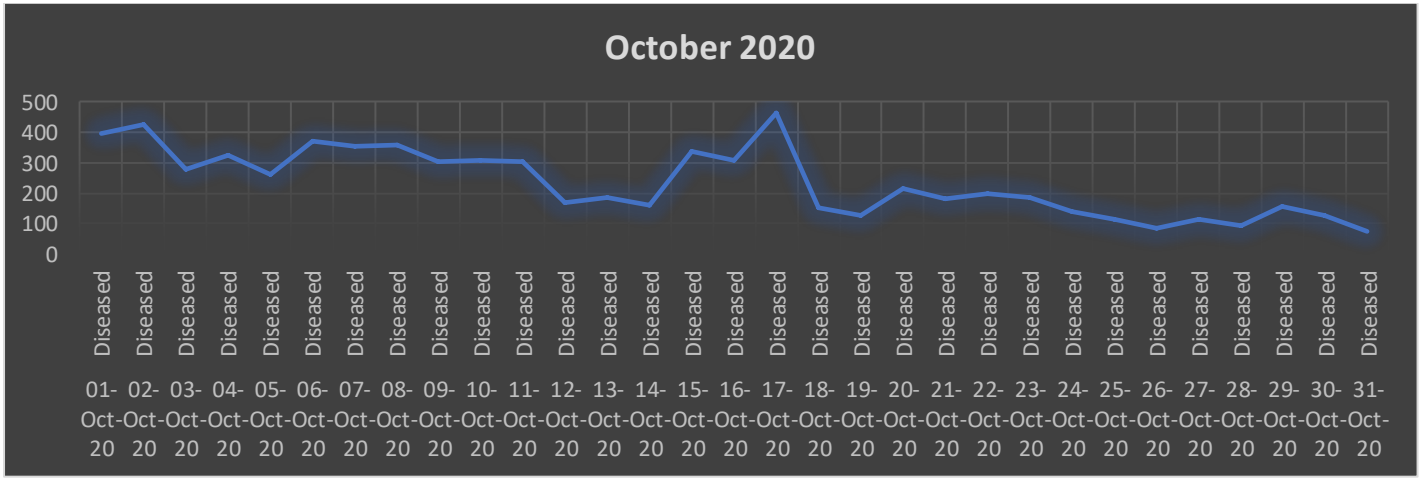
Total confirmed cases



Total recovered cases



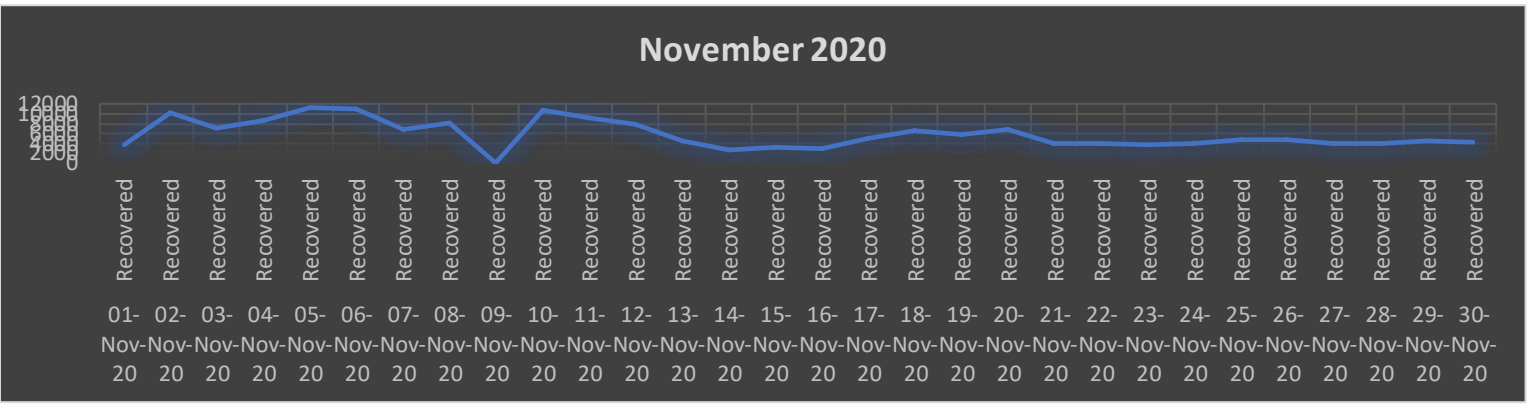
Total deceased cases



As can be seen from the above analysis, there is a steep decrease in the deceased rate in October, and the number of confirmed cases also decreases. However, the recovered cases increase at the start but decrease towards the end.

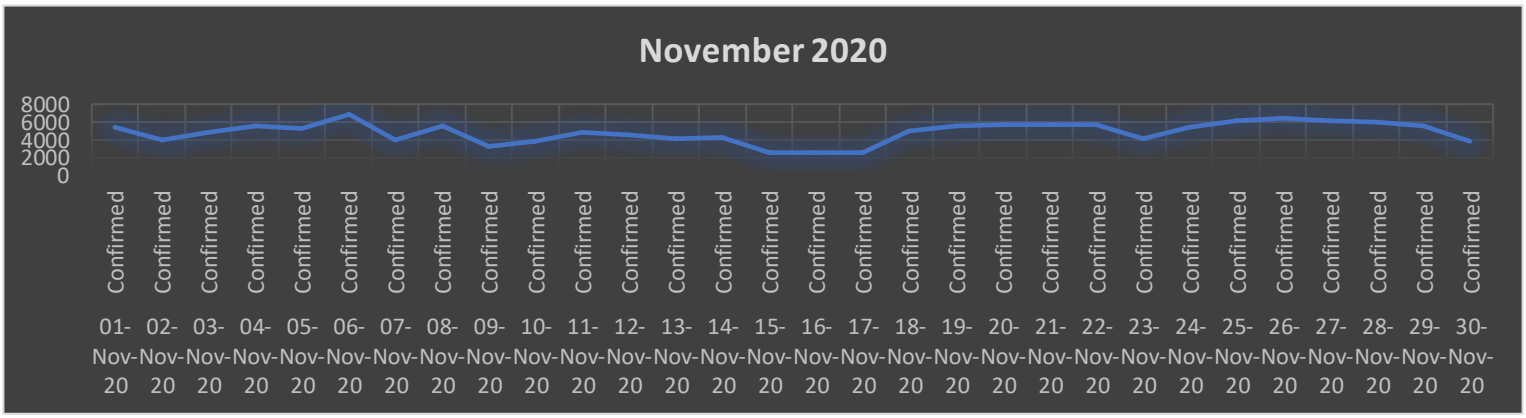
November 2020

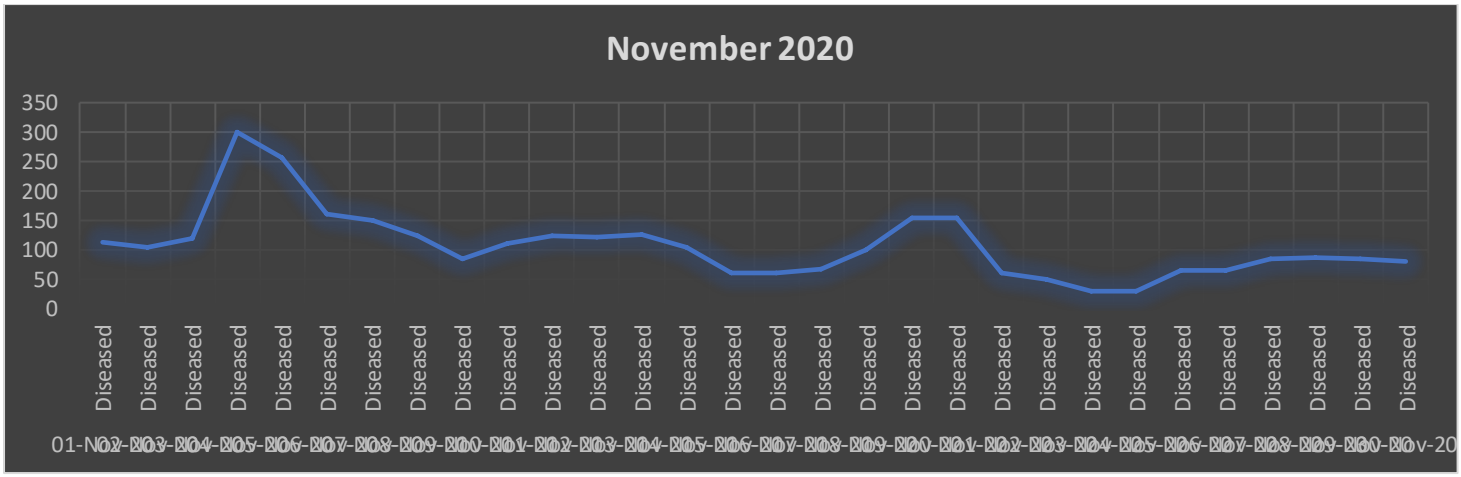
Total confirmed cases



Total recovered cases

Total recovered cases

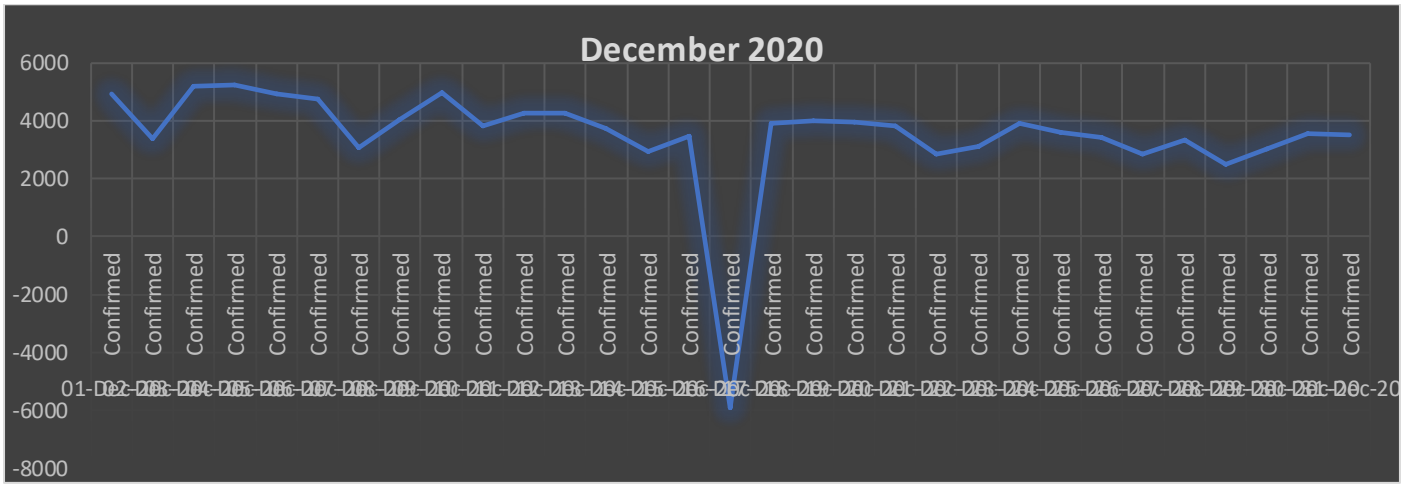




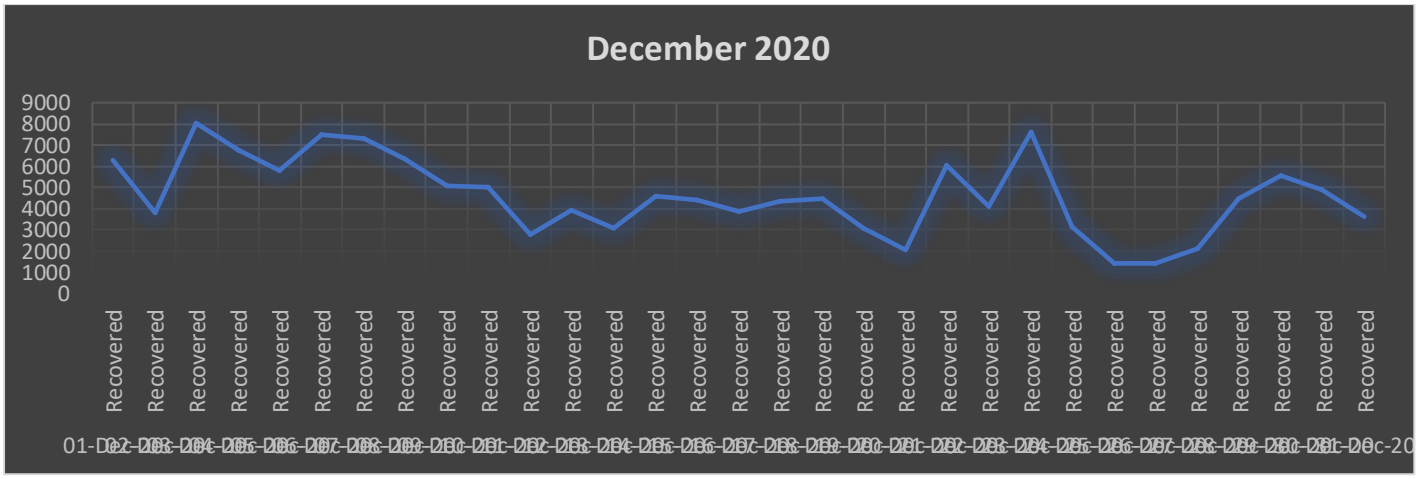
As seen from the analysis, the deceased rate is high at the start but gradually decreases and rises a bit towards the month-end. The recovery rate too first increases, then decrease, and increases towards the end of the month. The confirmed cases decrease and then remain constant.

December 2020

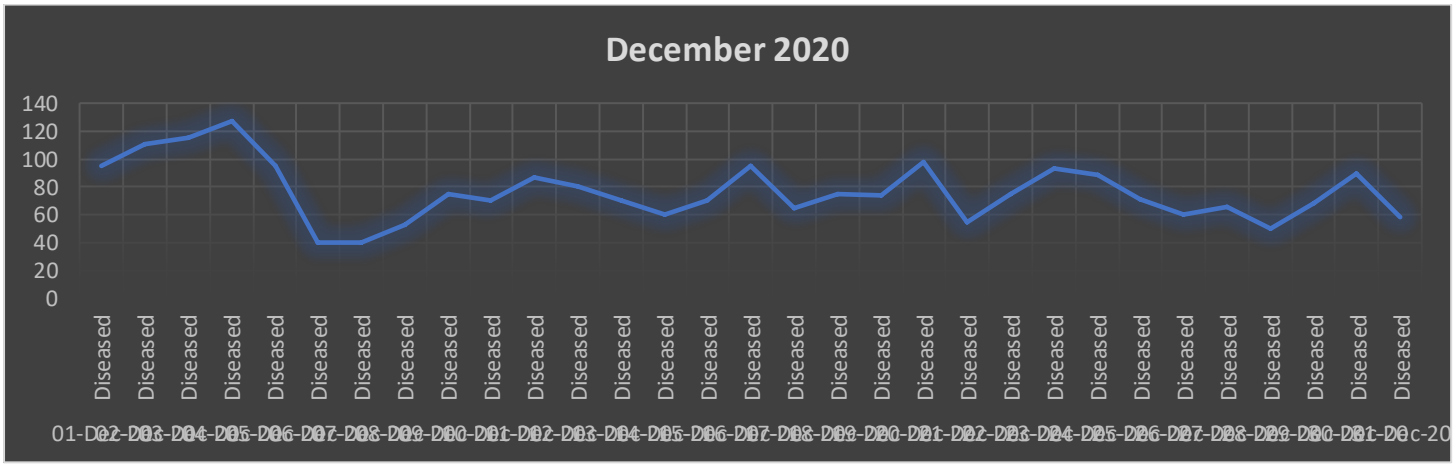
Total confirmed cases



Total recovered cases



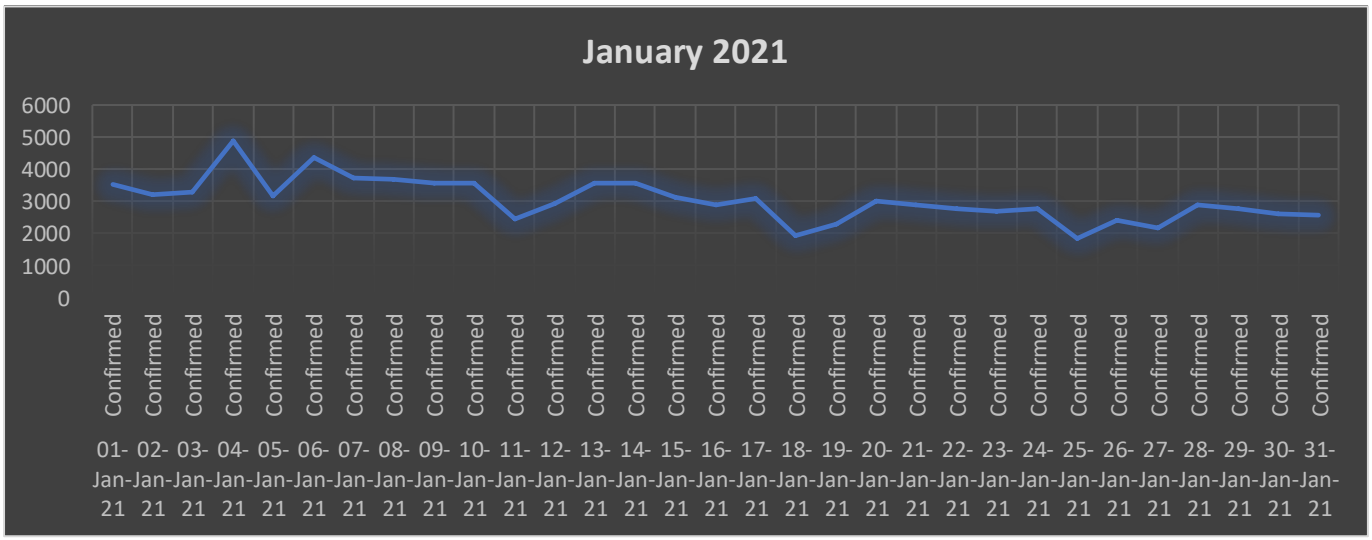
Total deceased cases



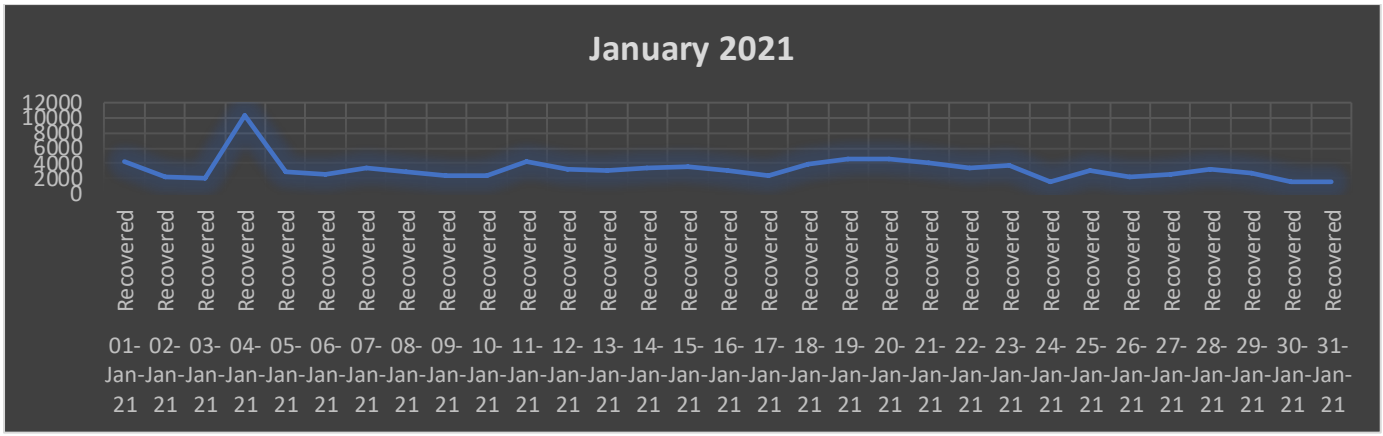
The confirmed cases see the lowest peak during mid-December, and for the rest of the month, the graph is constant. The recovered cases decrease at the start of the month but increase at the end.

January 2021

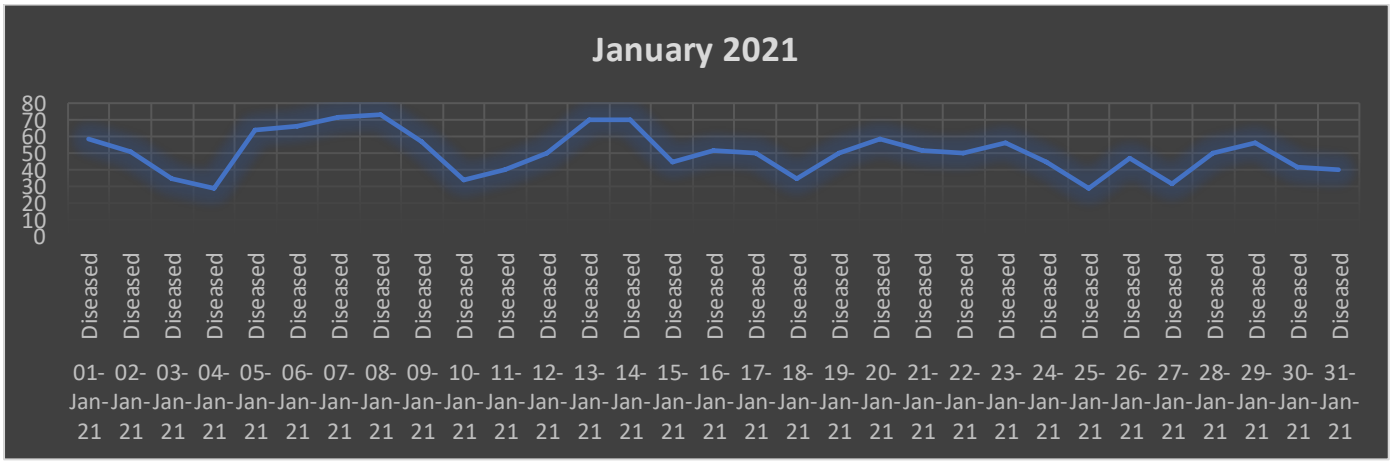
Total confirmed cases



Total recovered cases



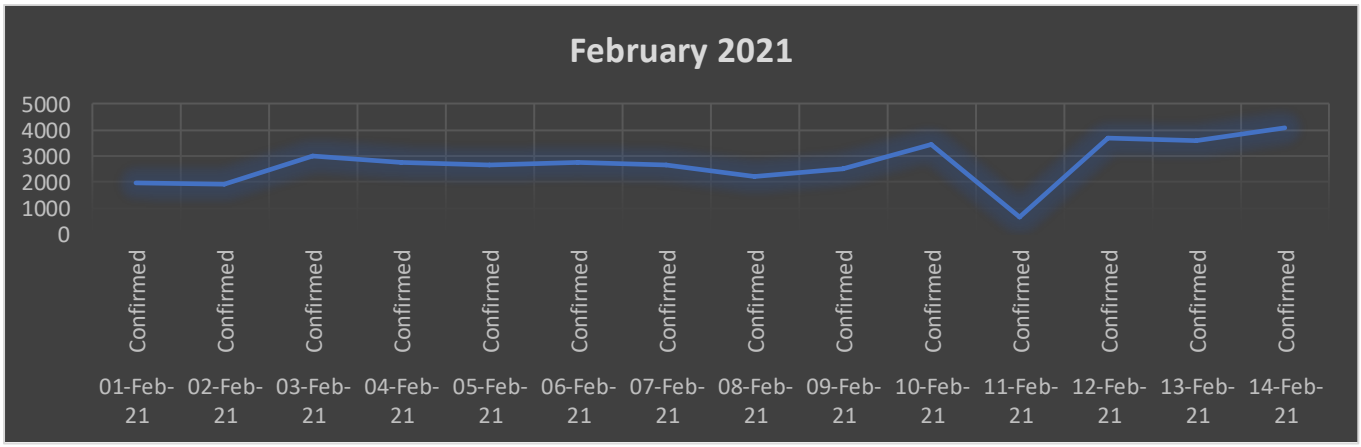
Total deceased cases

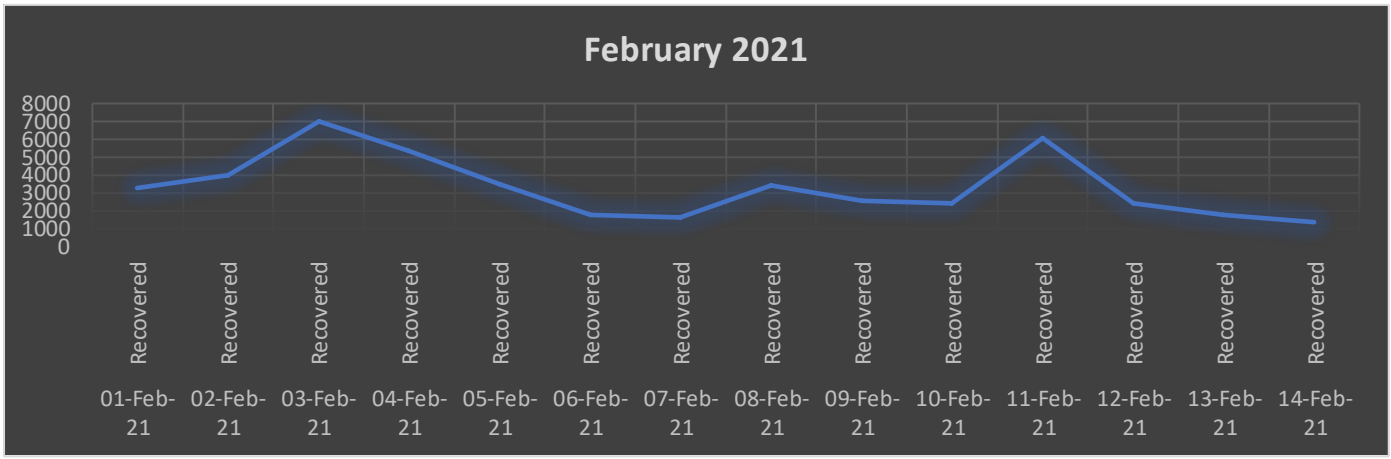


The confirmed cases decrease steadily, and the recovered cases are constant. The deceased graph is also constant. Overall, this month sees a constant trend of confirmed, recovered, and deceased cases.

February 2021

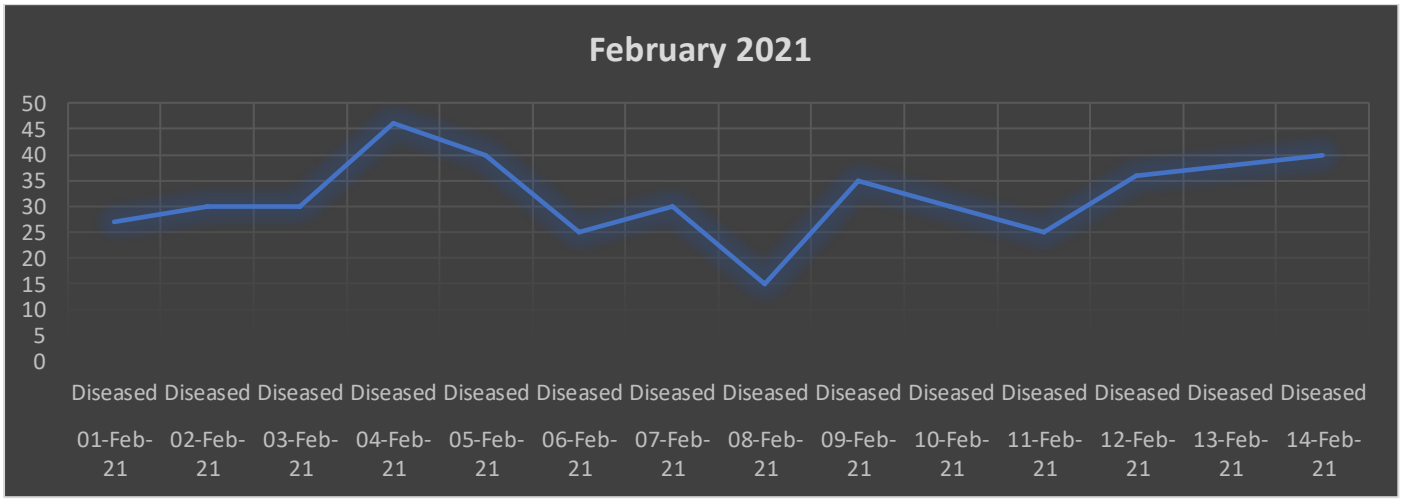
Total confirmed cases





Total confirmed cases

Total confirmed cases



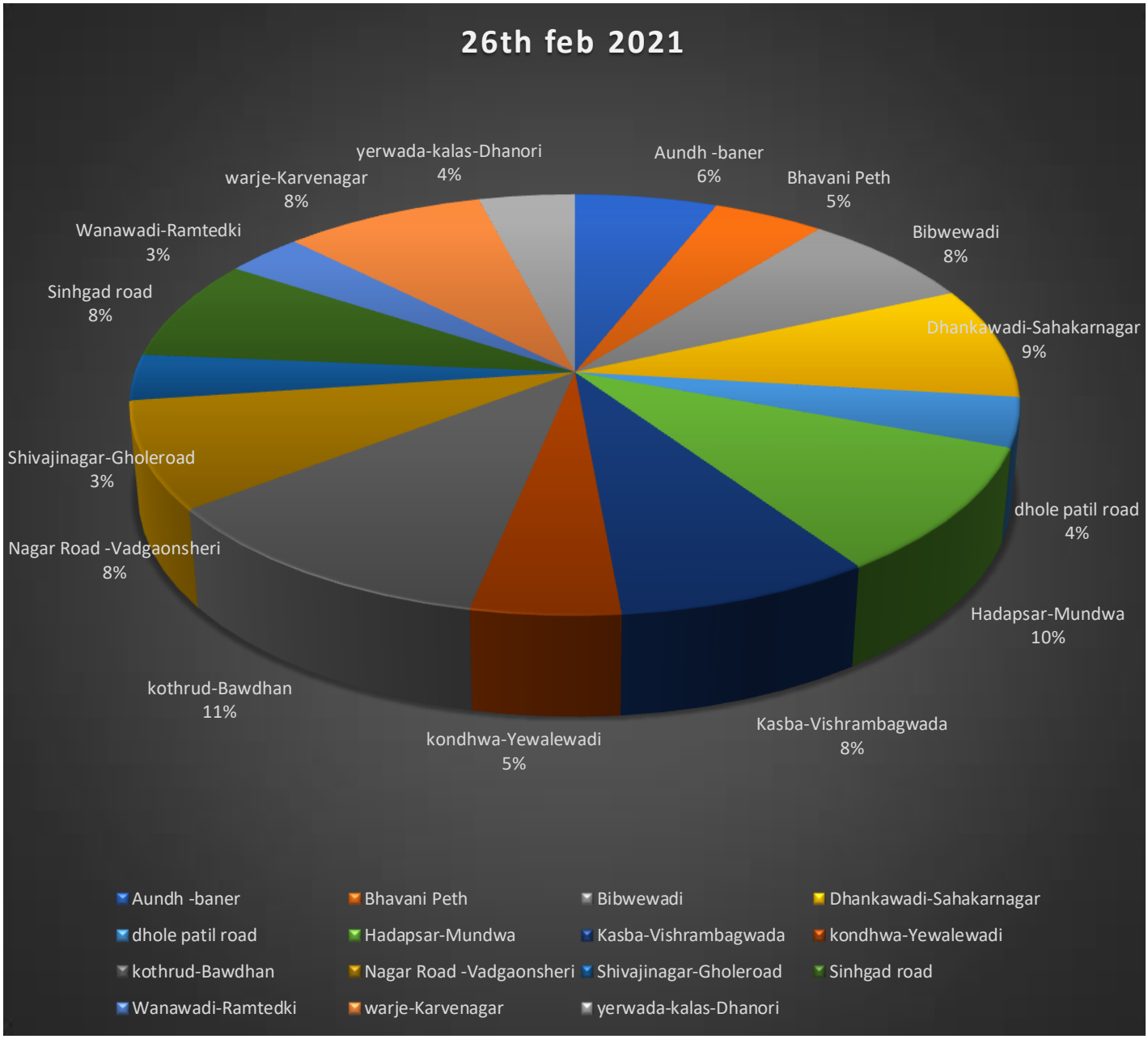
The February month sees a constant trend of confirmed cases. However, recovered cases and deceased cases vary throughout. The graph decreases in the start for recovered cases but increases towards mid-February. The deceased graph increases in the start decrease during 5-8 February and then increases.

5. Latest Situation of Covid-19 in PUNE areas(areas and cases)-

Aundh -baner	46
Bhavani Peth	36
Bibwewadi	58
Dhankawadi-Sahakarnagar	66

dhole Patil road	29
Hadapsar-Mundwa	75
Kasba-Vishrambagwada	62
kondhwa-Yewalewadi	36
kothrud-Bawdhan	87
Nagar Road -Vadgaonsheri	63
Shivajinagar-Ghole road	27
Sinhgad road	60
Wanawadi-Ramtedki	25
warje-Karvenagar	65
yerwada-kalas-Dhanori	31

Graph of Pune- region-wise.


26th feb 2021
Aundh -baner 6%
Bhavani Peth 5%
Bibwewadi 8%
Dhankawadi-Sahakarnagar 9%
dhole patil road 4%
Hadapsar-Mundwa 10%
Kasba-Vishrambagwada 8%
kondhwa-Yewalewadi 5%
kothrud-Bawdhan 11%
Nagar Road -Vadgaonsheri 8%
Shivajinagar-Gholeroad 3%
Sinhgad road 8%
Wanawadi-Ramtedki 3%
warje-Karvenagar 8%
yerwada-kalas-Dhanori 4%
Aundh -baner
Bhavani Peth
Bibwewadi
Dhankawadi-Sahakarnagar
dhole patil road
Hadapsar-Mundwa
Kasba-Vishrambagwada
kondhwa-Yewalewadi
kothrud-Bawdhan
Nagar Road -Vadgaonsheri
Shivajinagar-Gholeroad
Sinhgad road
Wanawadi-Ramtedki
warje-Karvenagar
yerwada-kalas-Dhanori

6. Summary

The statistical analysis gives us many insights into several confirmed cases, total recovered and total deceased. We can infer from the above graphs that the Covid-19 confirmed cases increased rapidly, then peaked and became constant after that.

Additionally, the months of September and October recorded the highest number of cases in Maharashtra. As per the recovered graphs, we can see that the recovery rate was not reasonable in the starting months but increased gradually in the upcoming months.

We can also see that the number of deceased people was very high initially, but the deceased rate gradually decreased as time passed. However, if proper precautions are not taken, the results can be disastrous. From the overall analysis of all months for a year, the number of recovered patients to the number of deceased is very good, which means there were higher numbers of recovered people than people who die due to Covid-19.

We can infer from the analysis that though the number of cases is increasing day by day, the recovery rate is also increasing. This is a positive trend and is a positive sign

However, on the contrary, the deceased rate is also high if we consider the total population in Maharashtra. The percentage might be low, but the count of people is high.

Therefore, proper prevention methods need to be applied to avoid the harsh effects of Covid-19. The recovery rate can be increased if the proper medication is taken and people follow the rules and regulations set by the Maharashtra government.

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