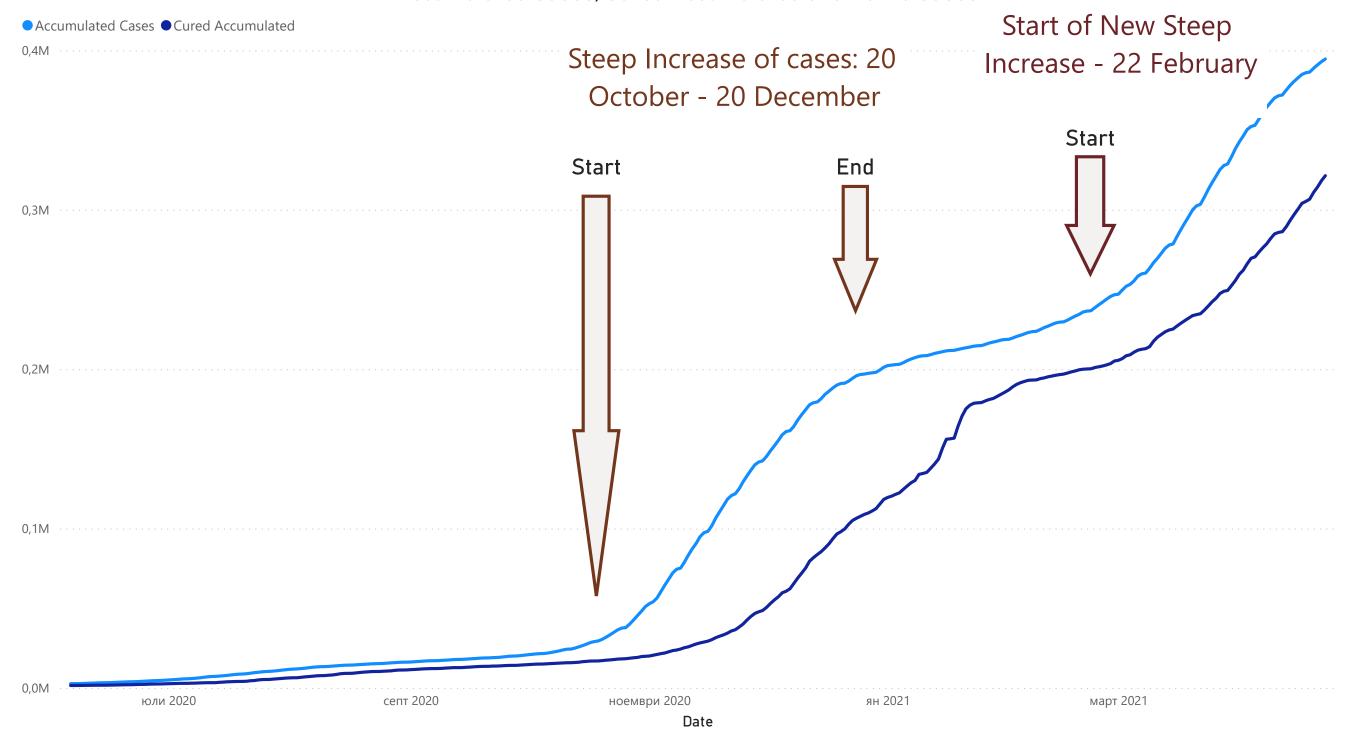
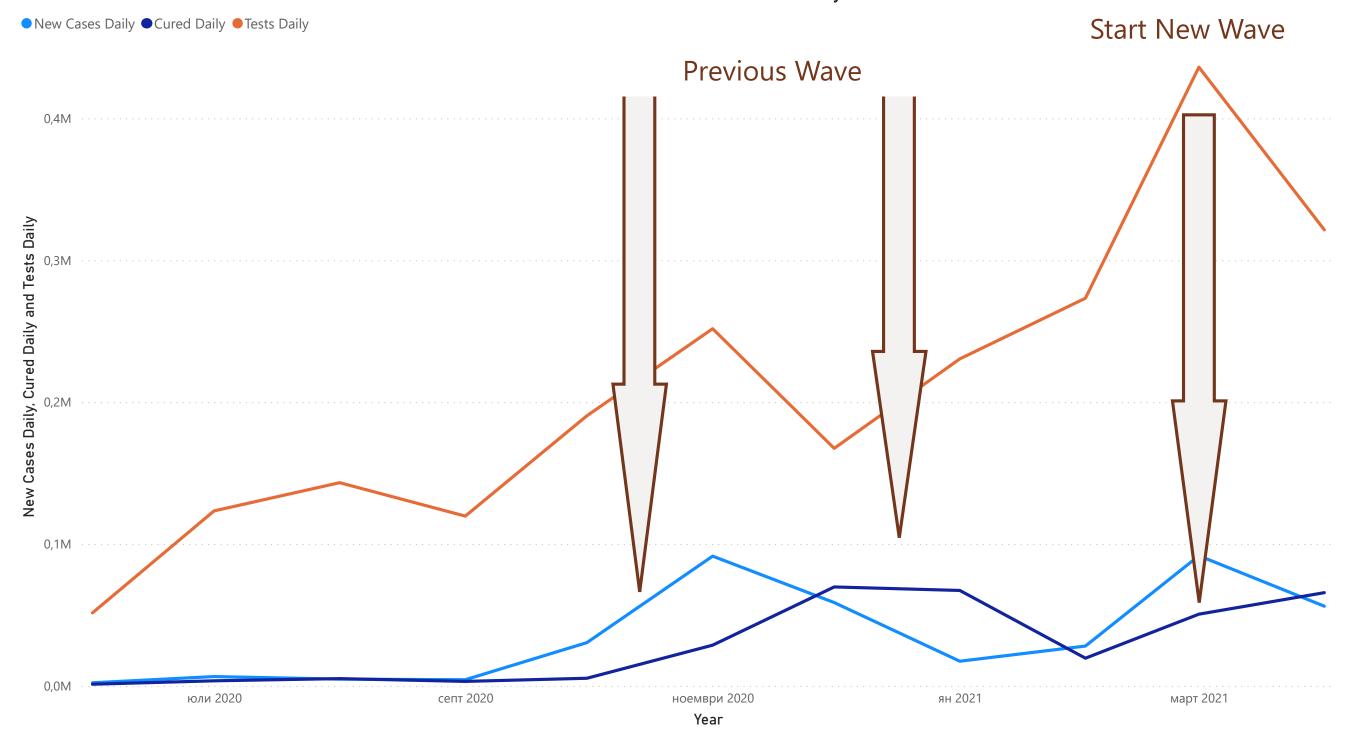
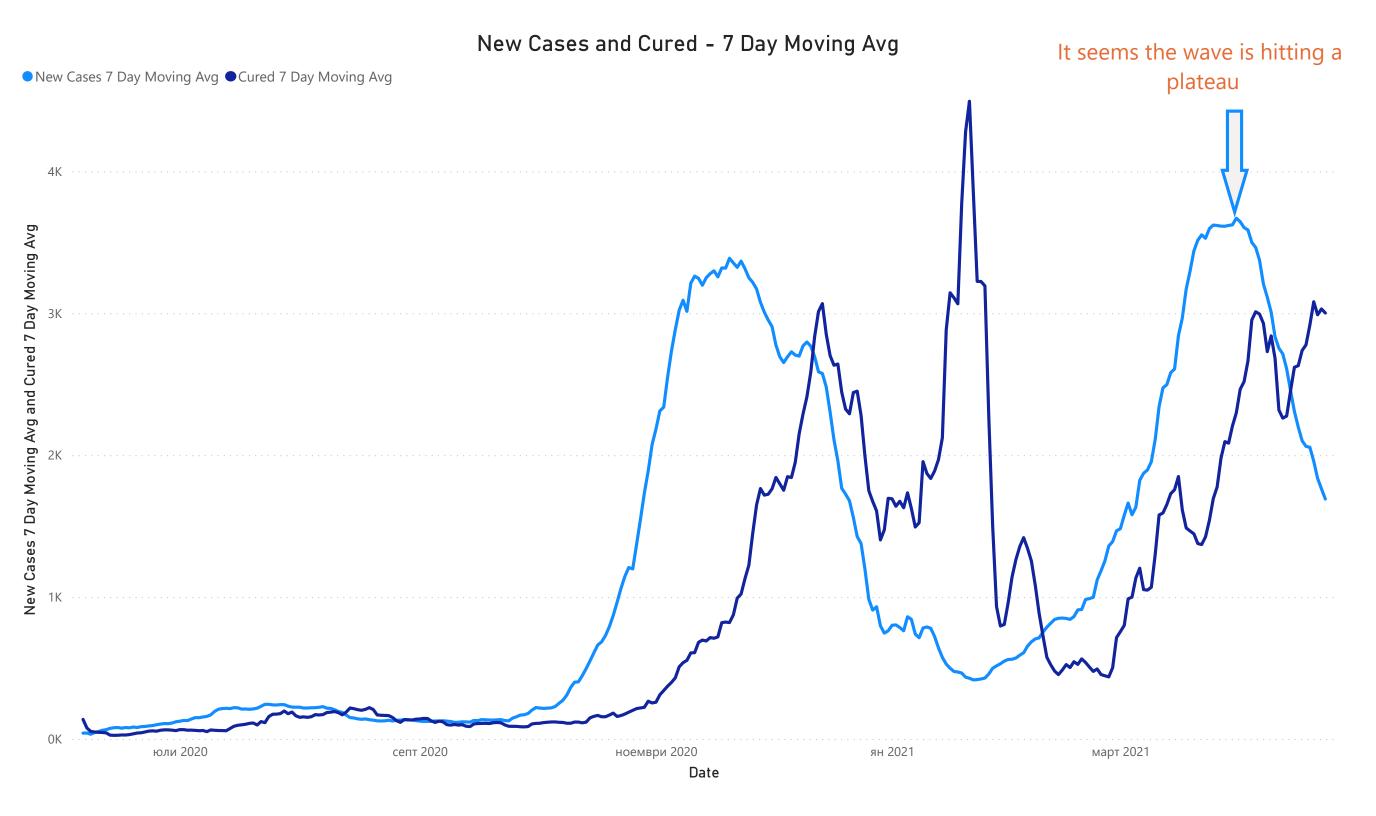
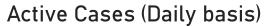
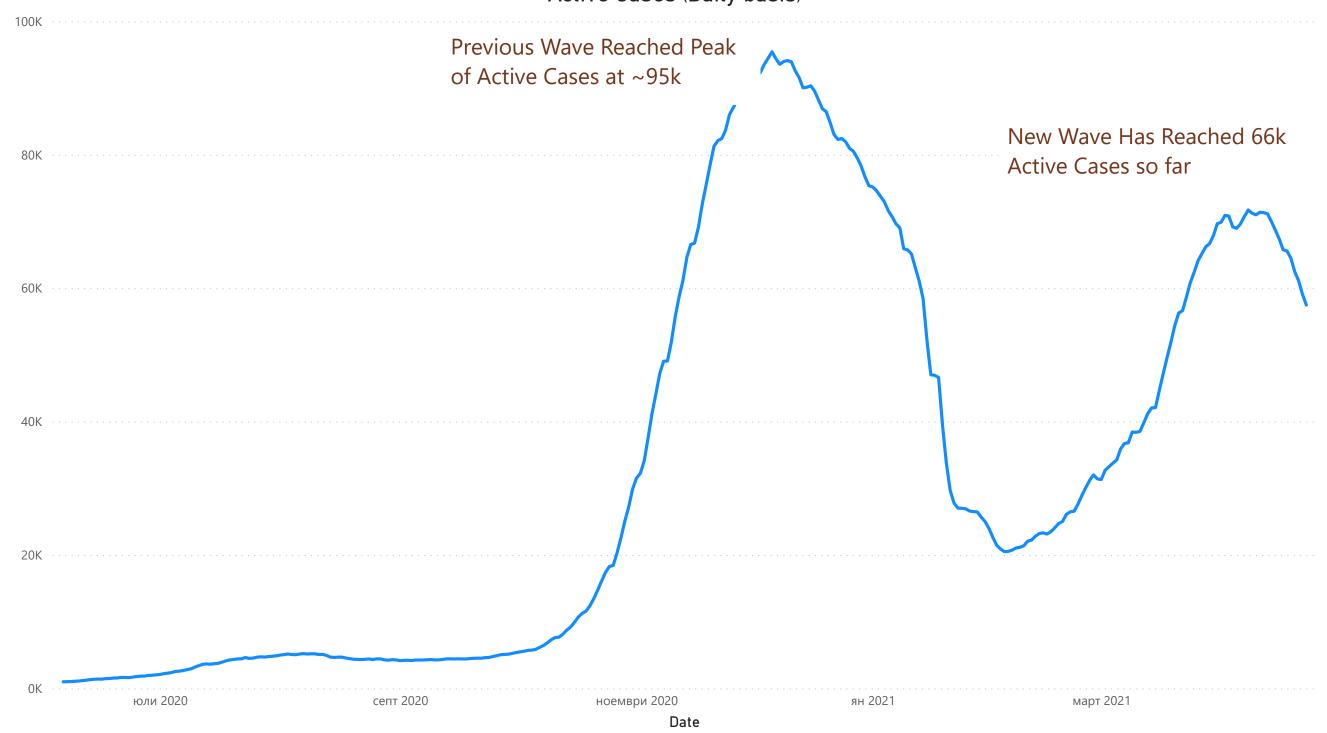
Accumulated Cases, Cured Accumulated and Active Cases

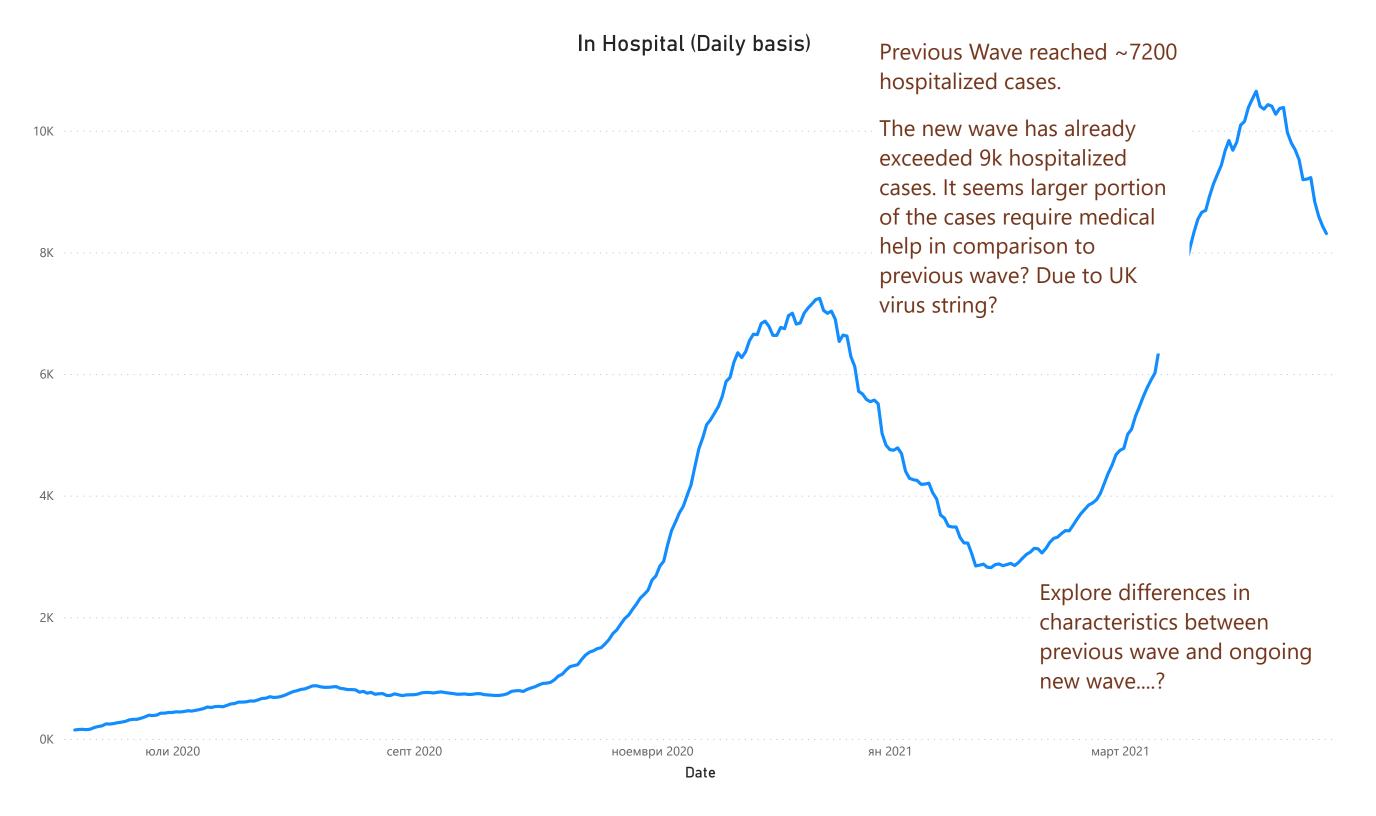


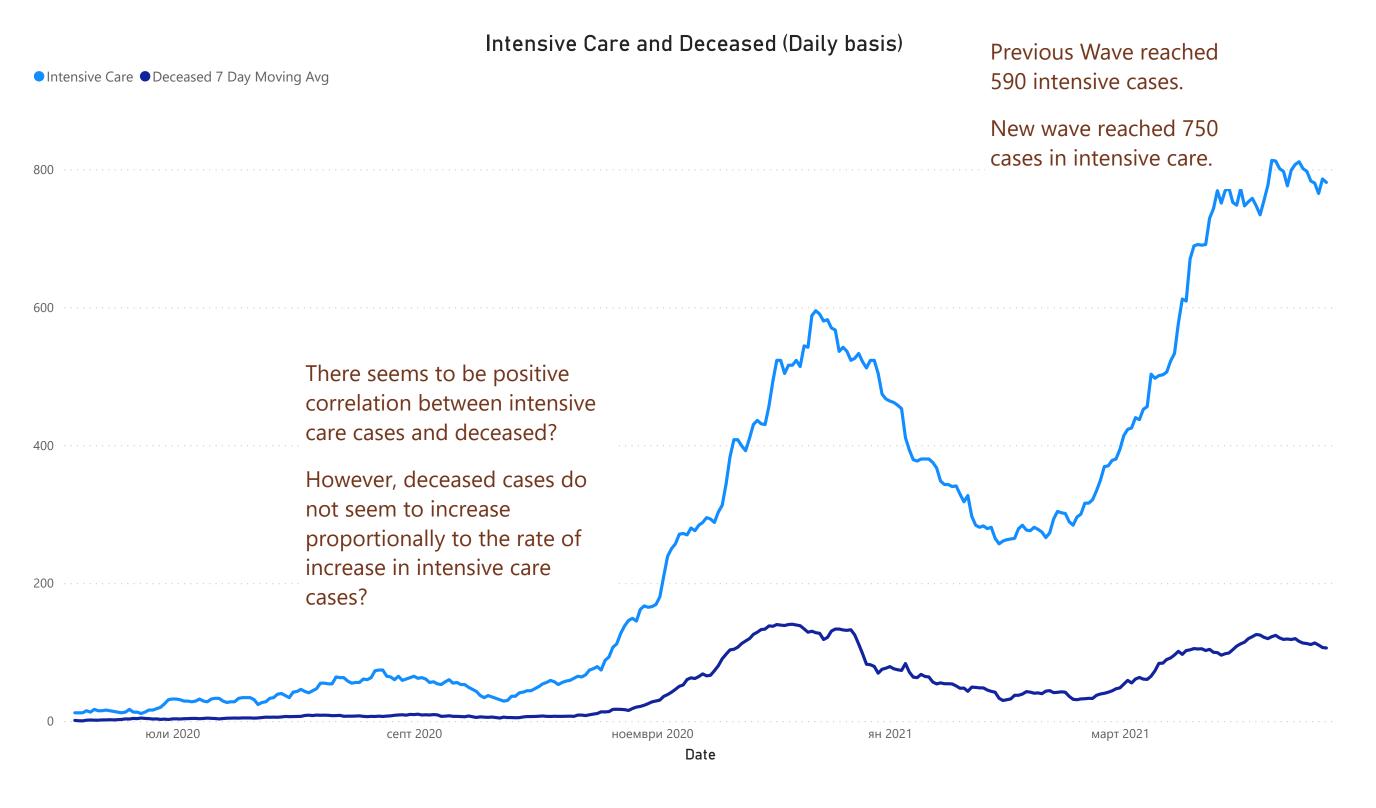




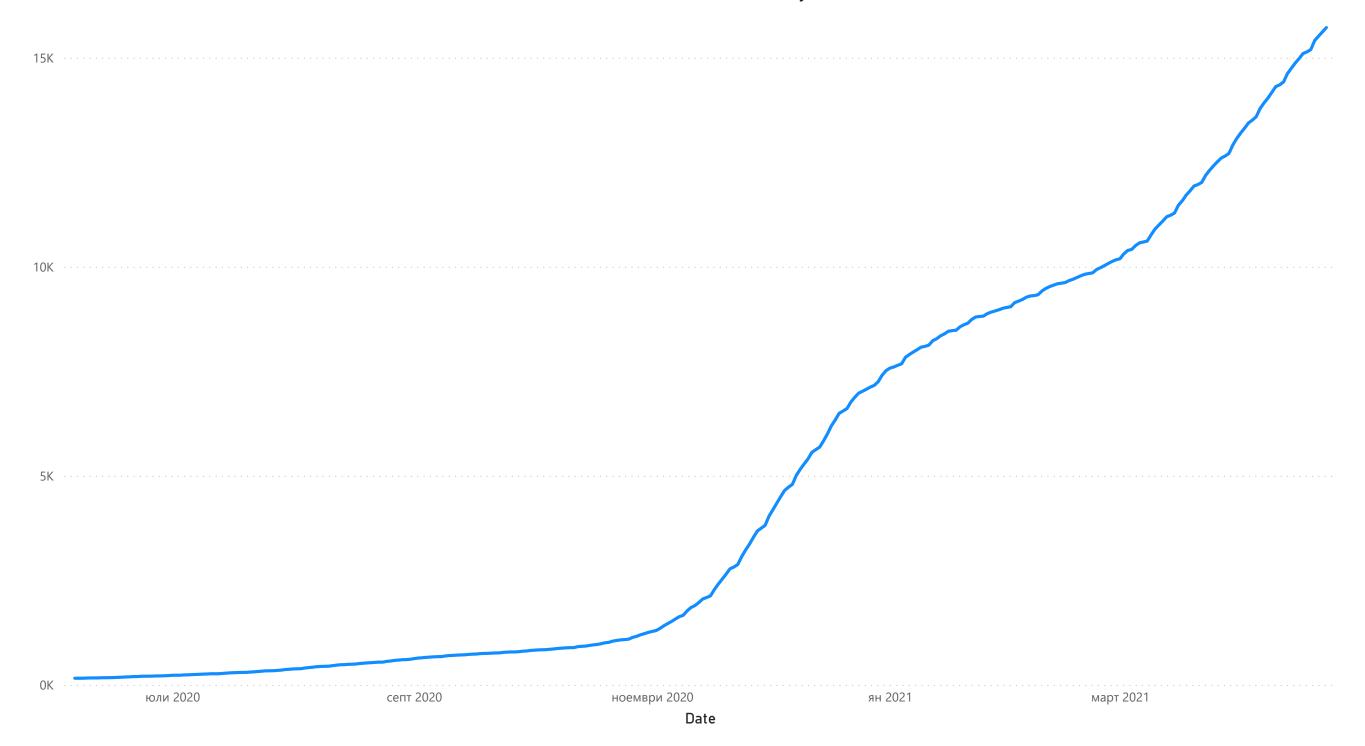


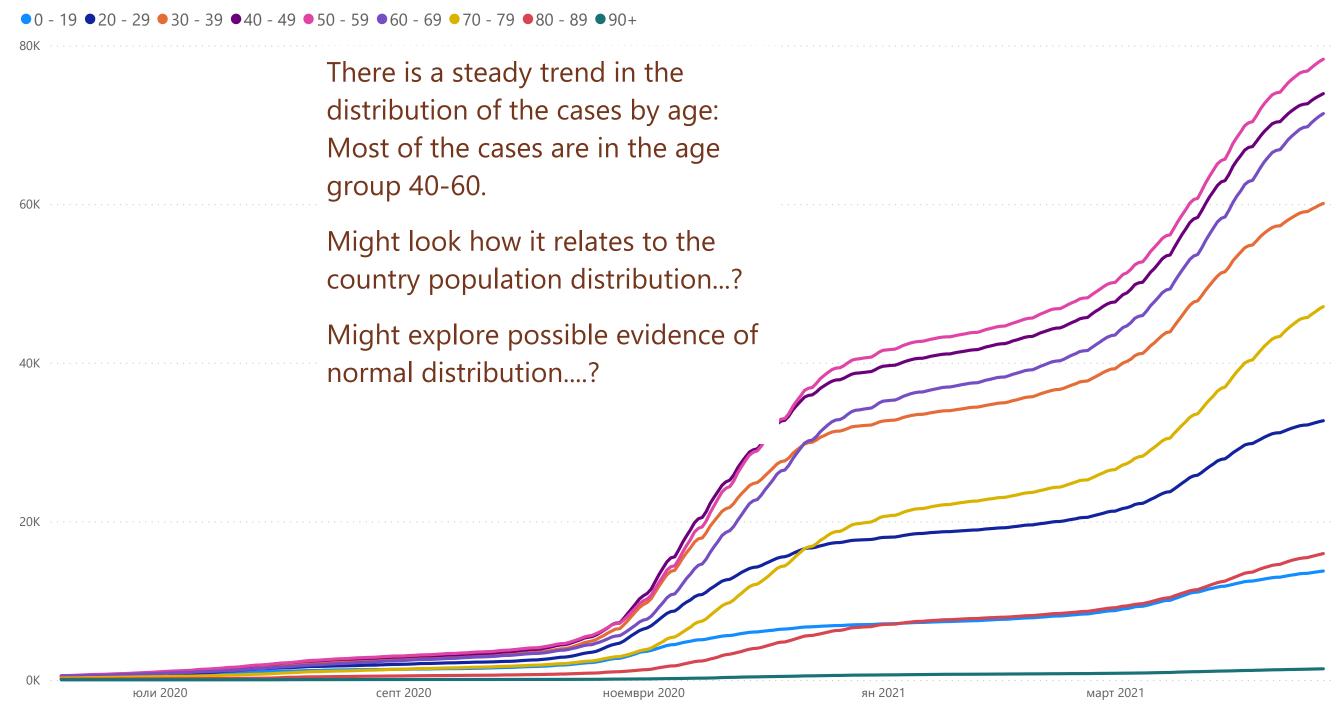




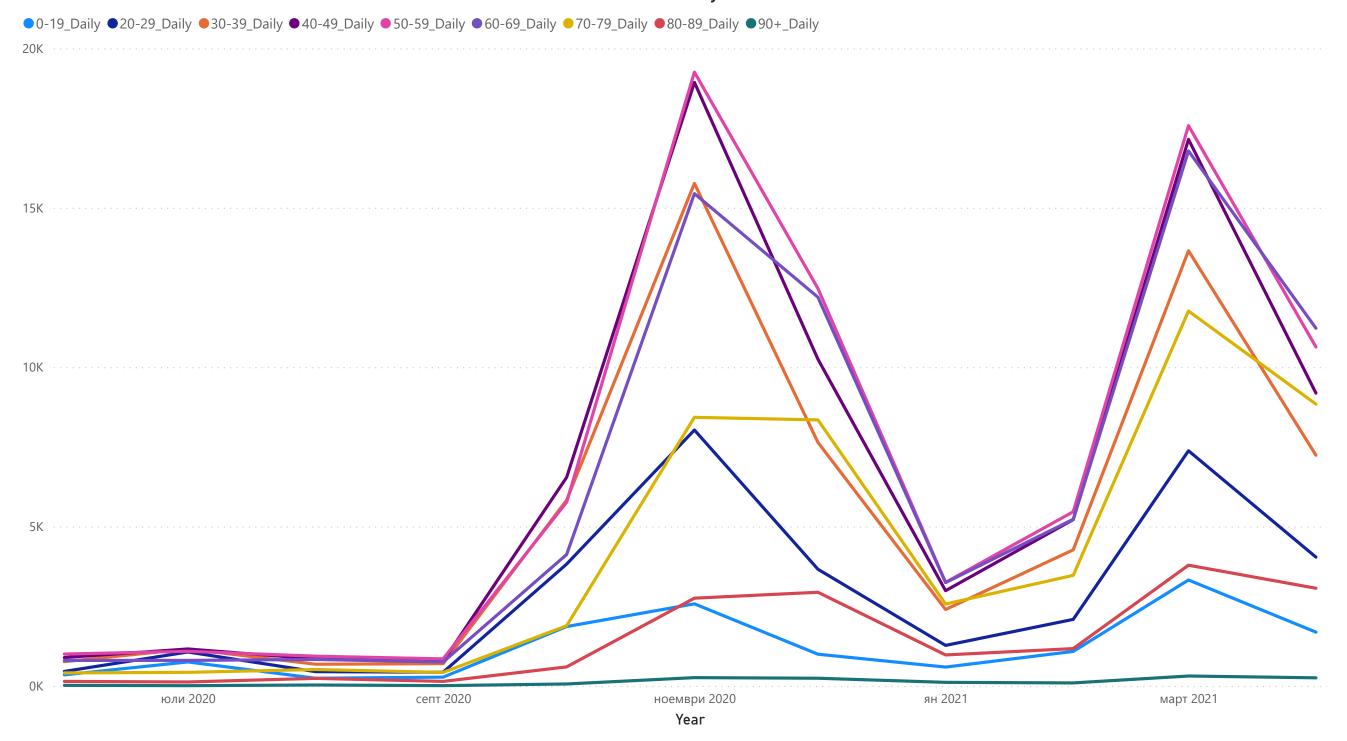


Deceased Accumulated (Daily basis)

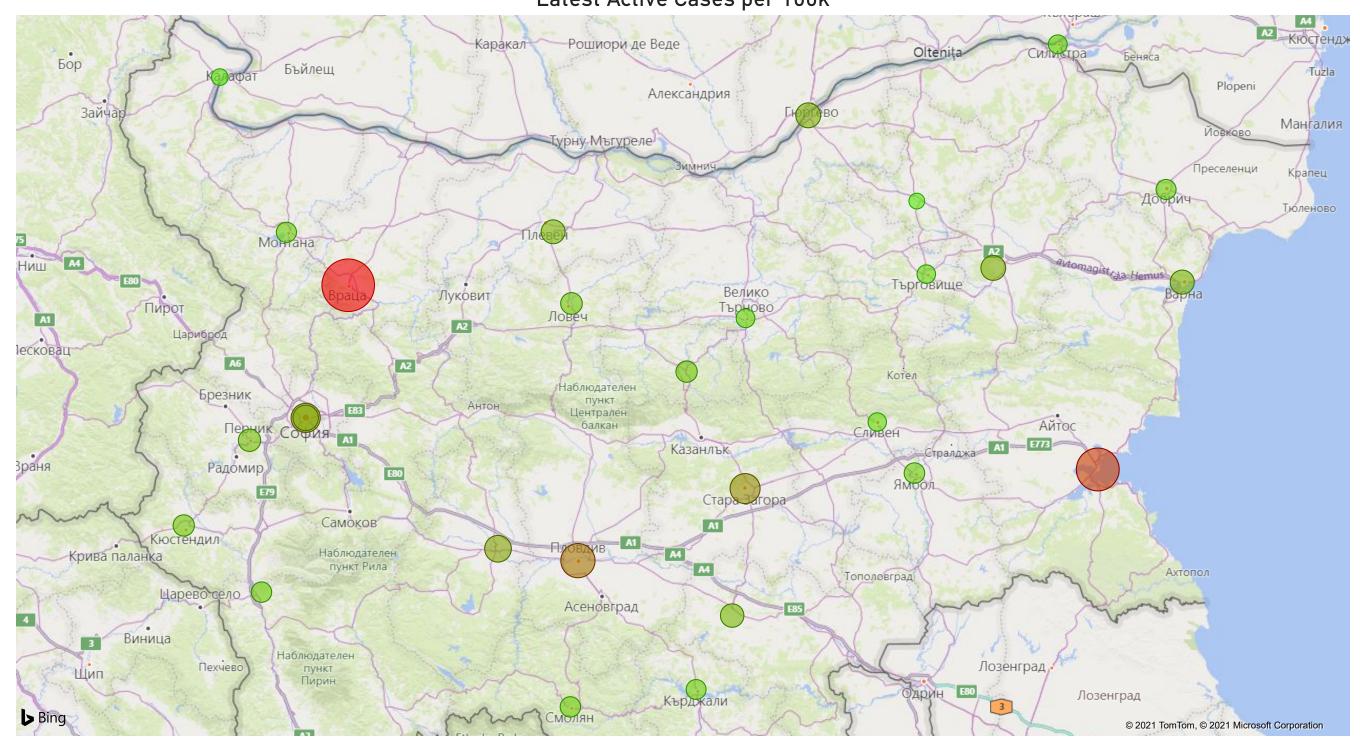




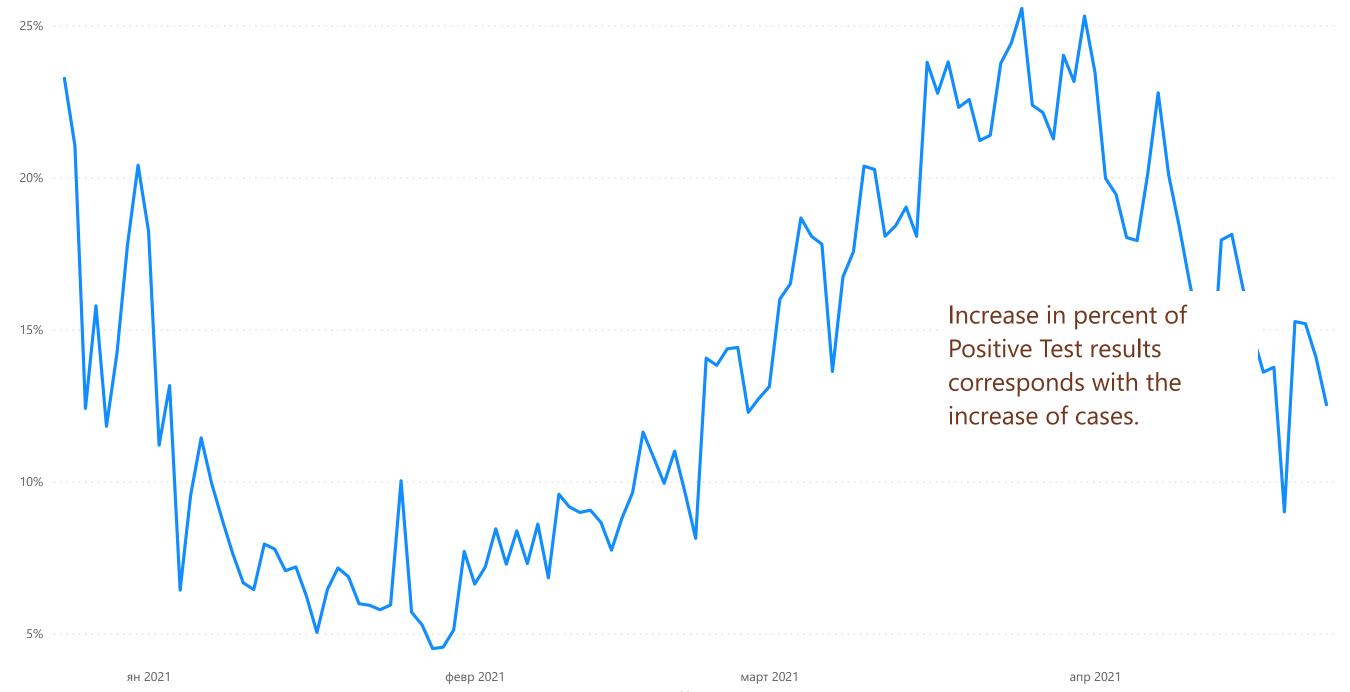
New Cases by Month

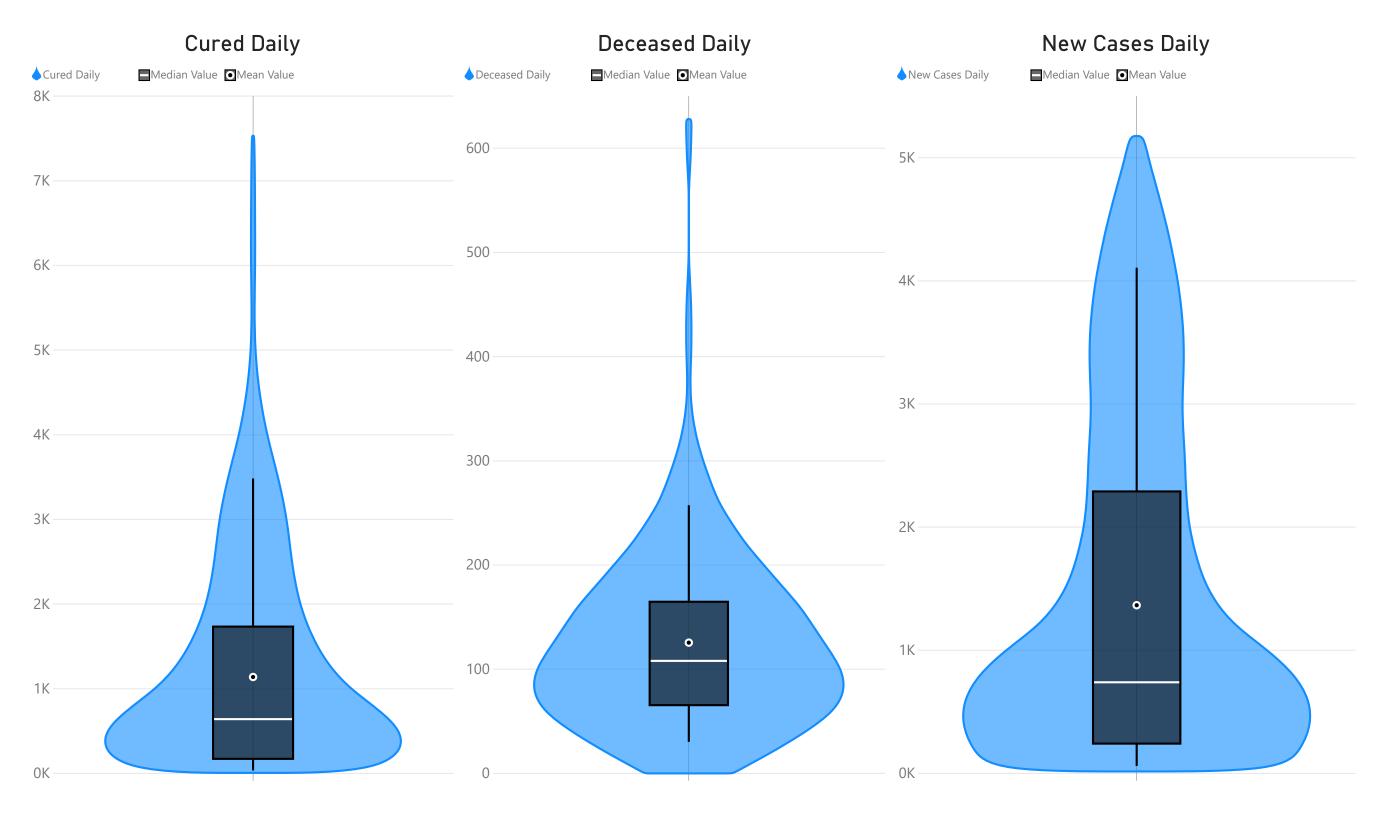


Latest Active Cases per 100k



Percent Positive Daily (Daily basis)





Descriptive Statistics by Region and Daily Cases

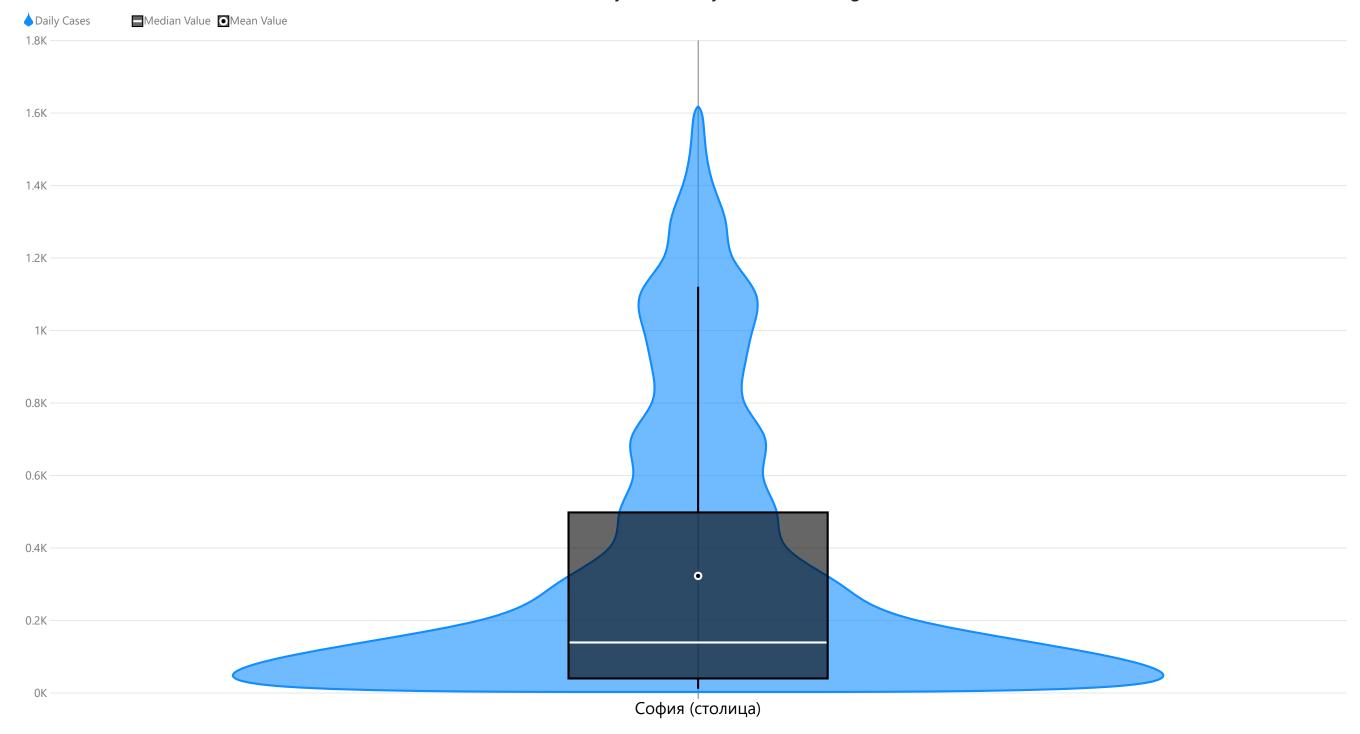
Region	Mean	Median	Standard Deviation
Благоевград	54,47	29	57,70
Бургас	80,64	35	103,98
Варна	90,70	35	109,84
Велико Търново	27,27	10	37,42
Видин	8,12	3	14,74
Враца	30,10	12	36,77
Габрово	19,48	7	29,87
Добрич	22,60	12	27,38
Кърджали	12,99	6	16,05
Кюстендил	26,56	13	30,49
Ловеч	16,20	7	20,71
Монтана	17,89	6	24,80
Пазарджик	32,99	19	34,09
Перник	23,36	10	27,78
Плевен	39,40	21	46,56
Пловдив	106,44	43	125,51
Разград	10,95	5	13,36
Pyce	40,78	13	55,08
Силистра	17,48	5	26,30
Сливен	30,58	17	33,60
Смолян	13,85	7	16,51
София	39,02	16	46,71
София (столица)	323,18	140	379,77
Стара Загора	51,58	19	68,46
Търговище	11,02	4	14,50
Хасково	28,96	10	35,67
Шумен	28,80	11	35,62
Ямбол	20,04	8	26,27

Distribution of daily cases seem to vary from one region to another.

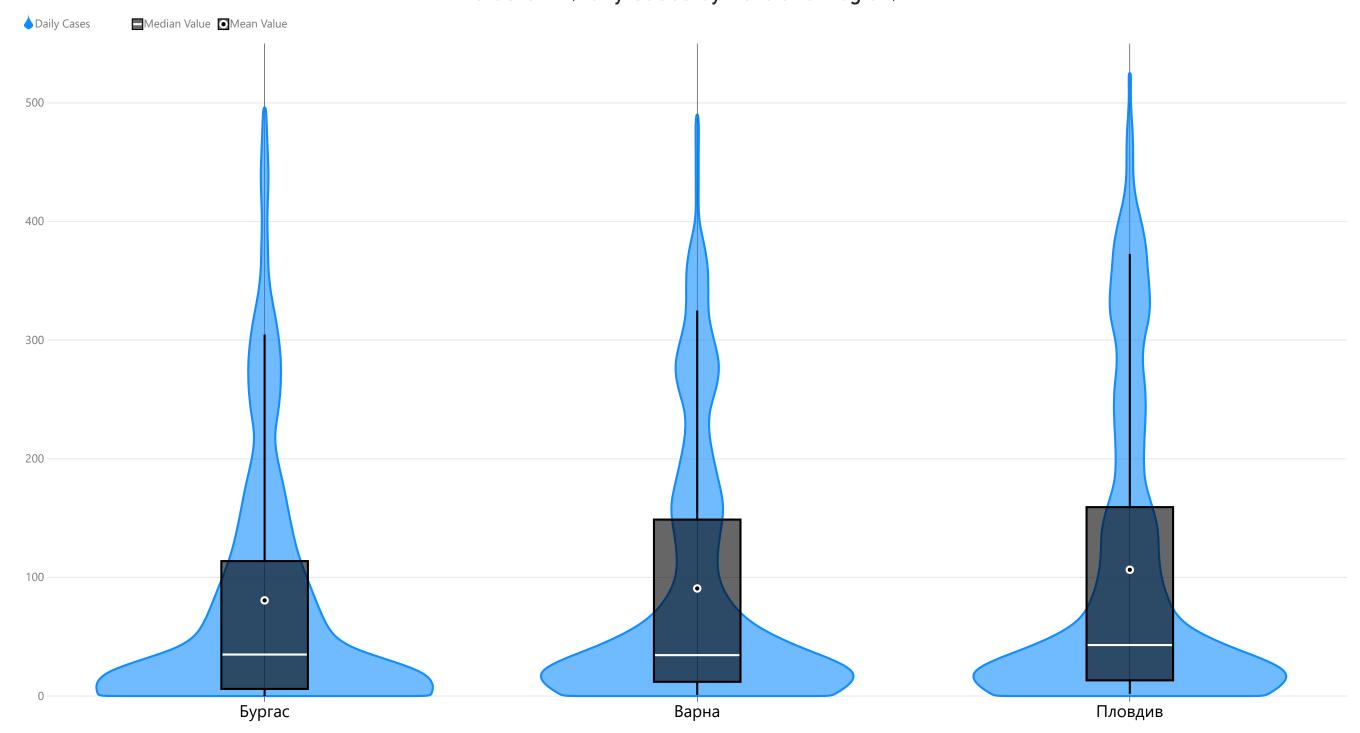
Still in some regions, the distribution looks similar.

Using k-means, the regions are grouped in 4 clusters in the following pages.

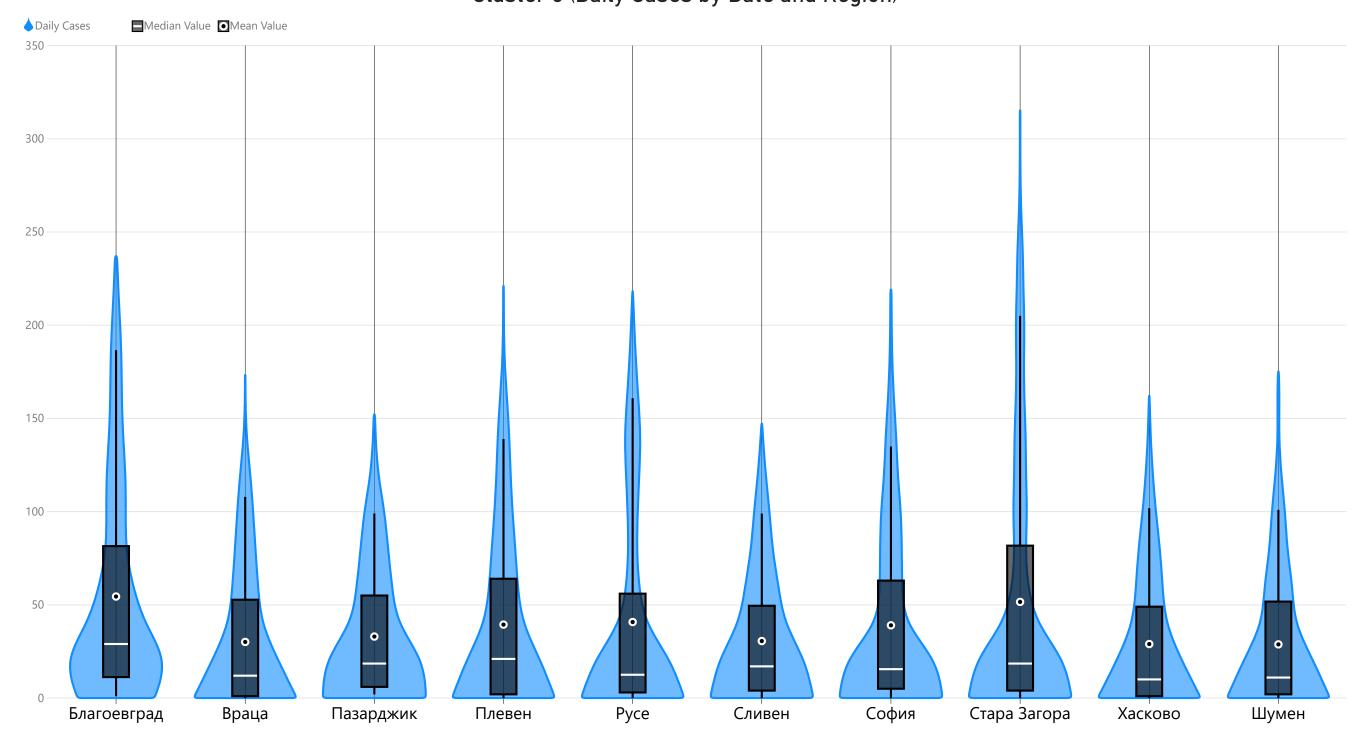
Cluster 1 (Daily Cases by Date and Region)



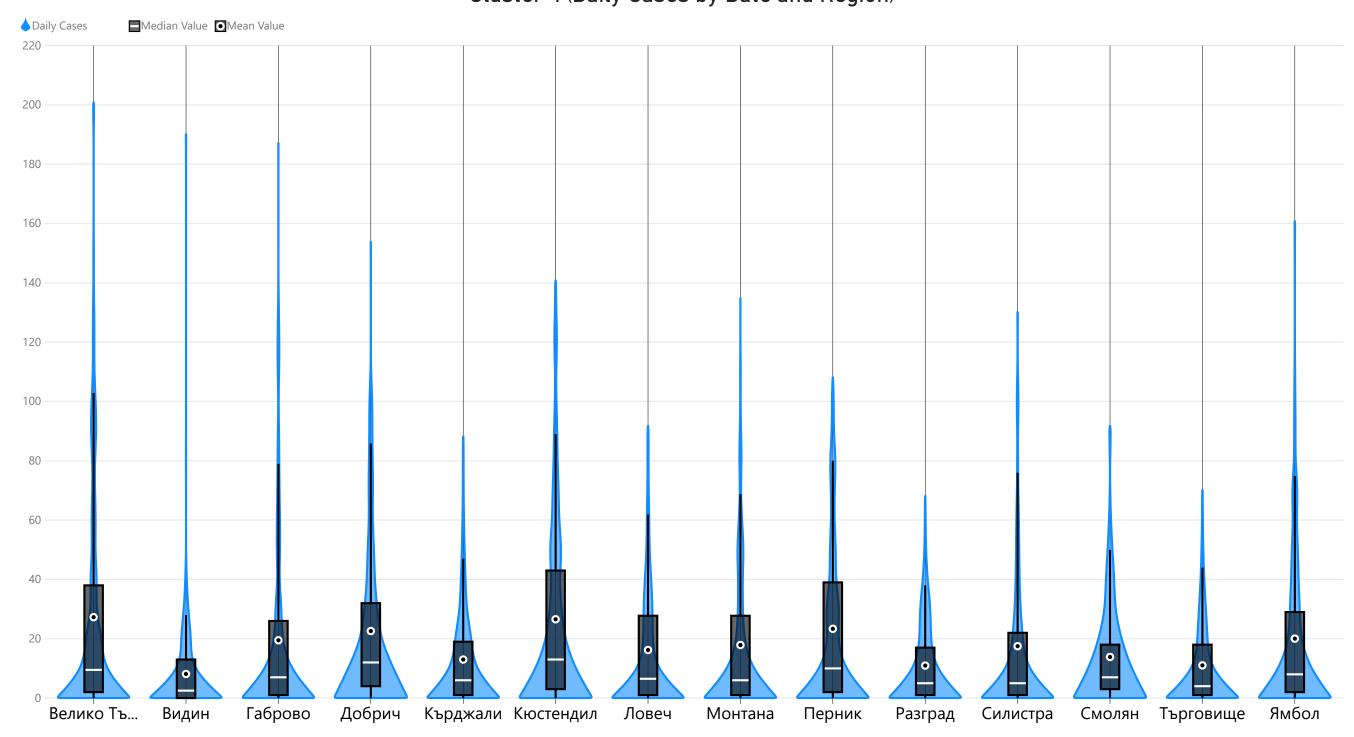
Cluster 2 (Daily Cases by Date and Region)

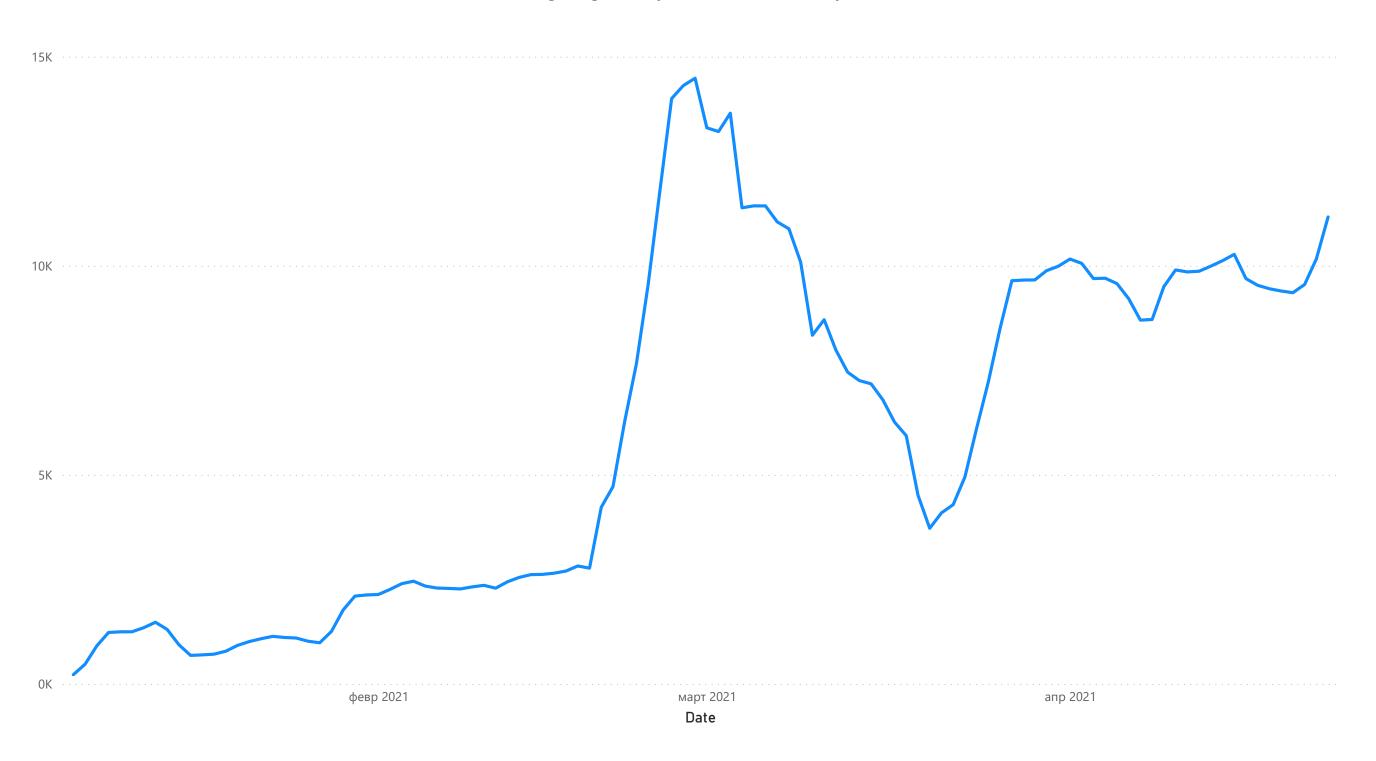


Cluster 3 (Daily Cases by Date and Region)

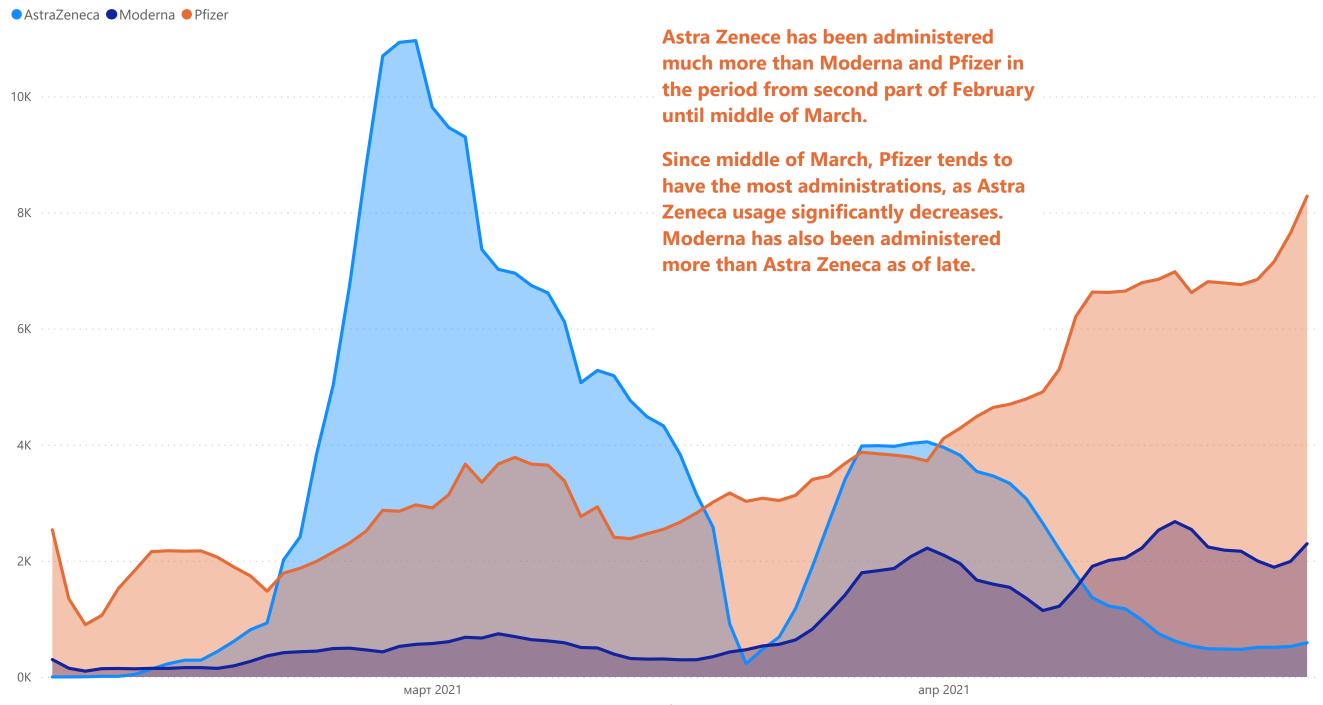


Cluster 4 (Daily Cases by Date and Region)

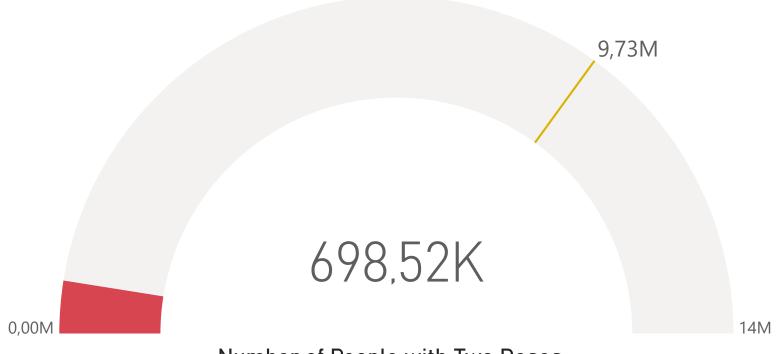




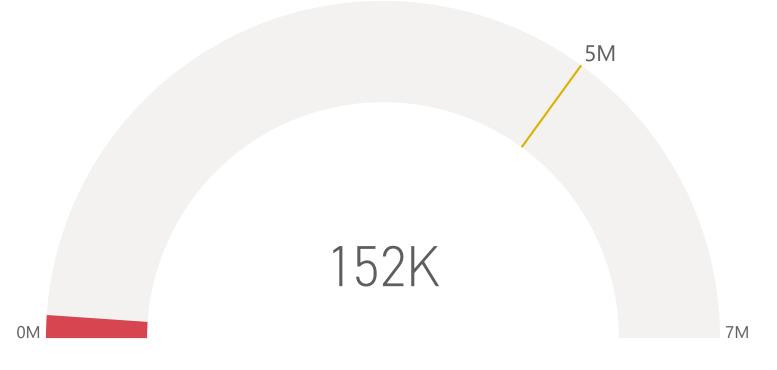
Astra Zeneca, Moderna and Pfizer doses by date (7-day moving average)



Total Vaccine Doses



Number of People with Two Doses



Percent Region Population with Second Dose

София (столица)	Ямбол	Кюстендил	Русе	олян Видин	София
	2.4404				
	2,41%	2,11%			
	Враца	Ловеч			
3,85%			1,75%	70% 1,68%	1,65%
Плевен			Велико Търново	Благоевград	Пазарджик
	2,40%	1,93%			
	Варна	Бургас			
			1,59%		
2,82%			Монтана	1,44%	1,42%
Габрово	2,23%	1,78%		Сливен	Добрич
	Разград	Т, 7 О /О Хасково	1,54%		
			Пловдив		
2,65%	2 200/	1 770/		1,41%	1,37%
Перник	2,20% Търговище	1,77% Шумен	1,54%	Стара Загора	Кърджали
	търговище	шумен	Силистра		
		1	4 - 004	1.000	1 0 504
2,53%	2,14%	1,76%	1,50%	1,28%	1,26%

Sources

- 1. https://data.egov.bg/
- 2. https://coronavirus.bg/
- 3. https://www.nsi.bg/
- 4. https://github.com/svilens/covid-bulgaria
- 5. https://covid19bg.github.io/