

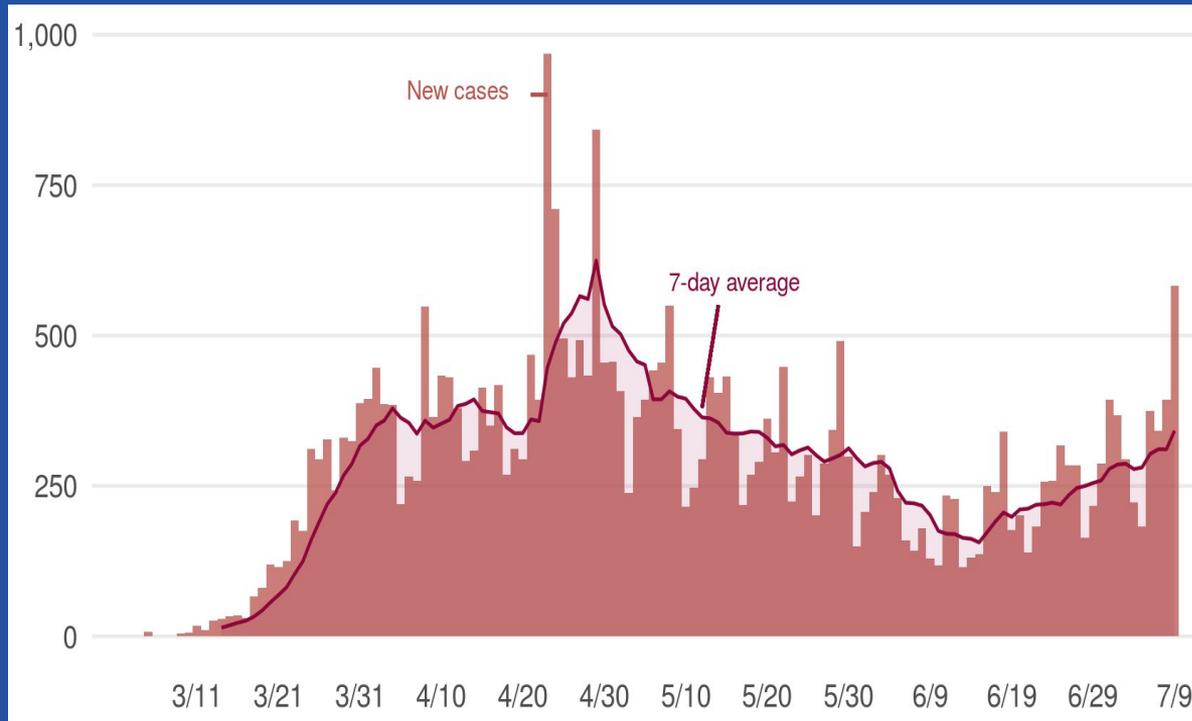
July 13, 2020 - Strategic Action Planning Group on Aging

COVID-19 Epidemiology

Rachel Herlihy, MD, MPH
State Epidemiologist



Daily Case Counts and 7 Day Moving Average Trend



Increase since early June

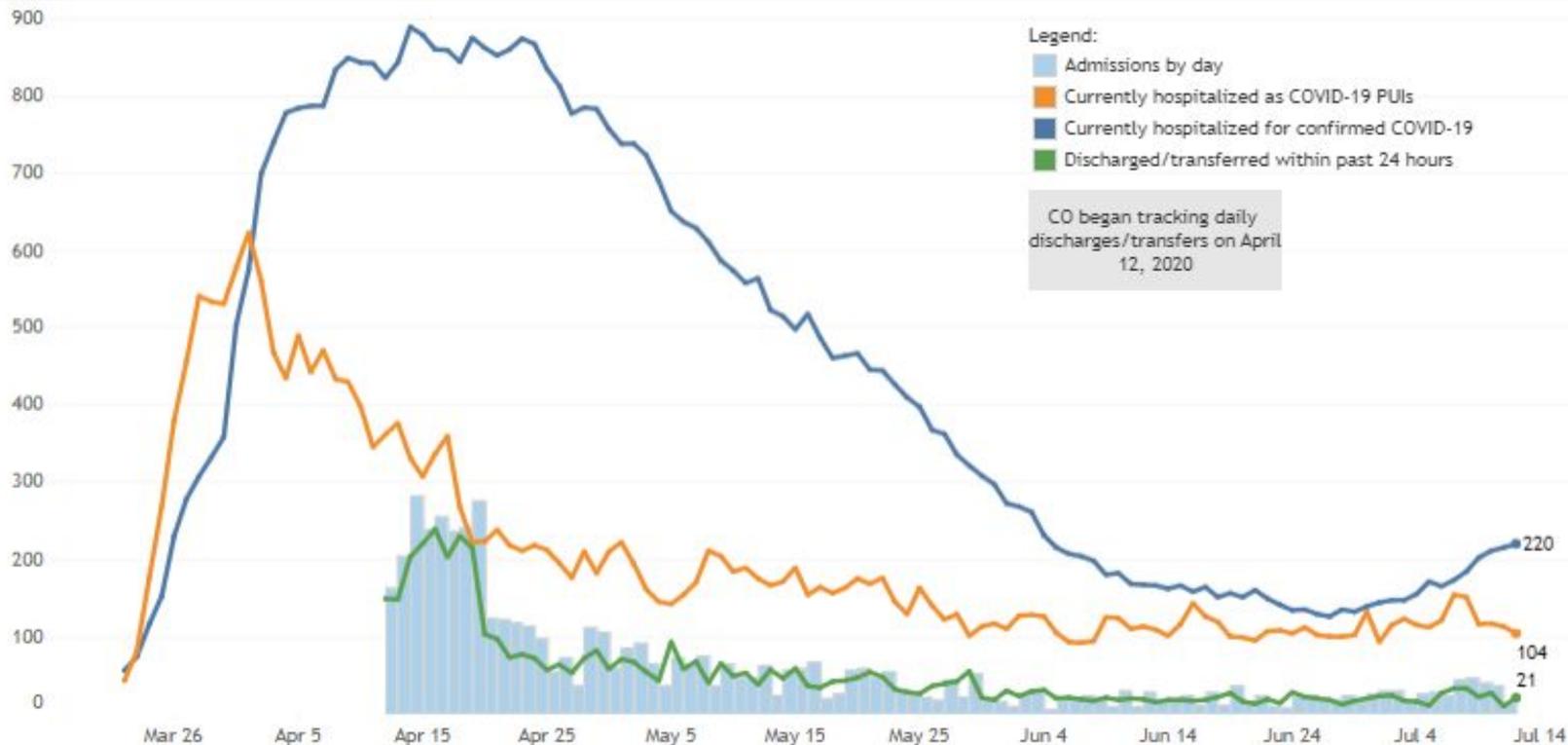
Slower increase than in spring

Increase likely due to Coloradans' change in behavior

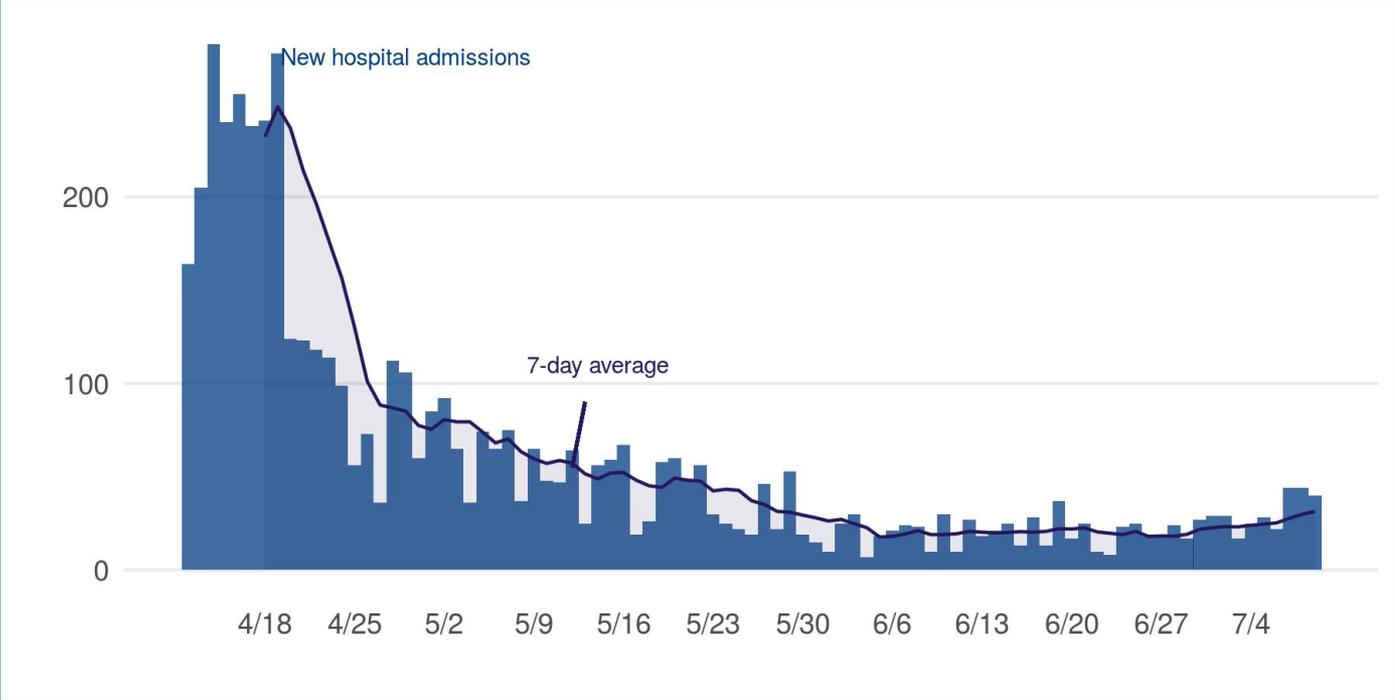
Slower increase is also due to behavior

Some increase due to more testing

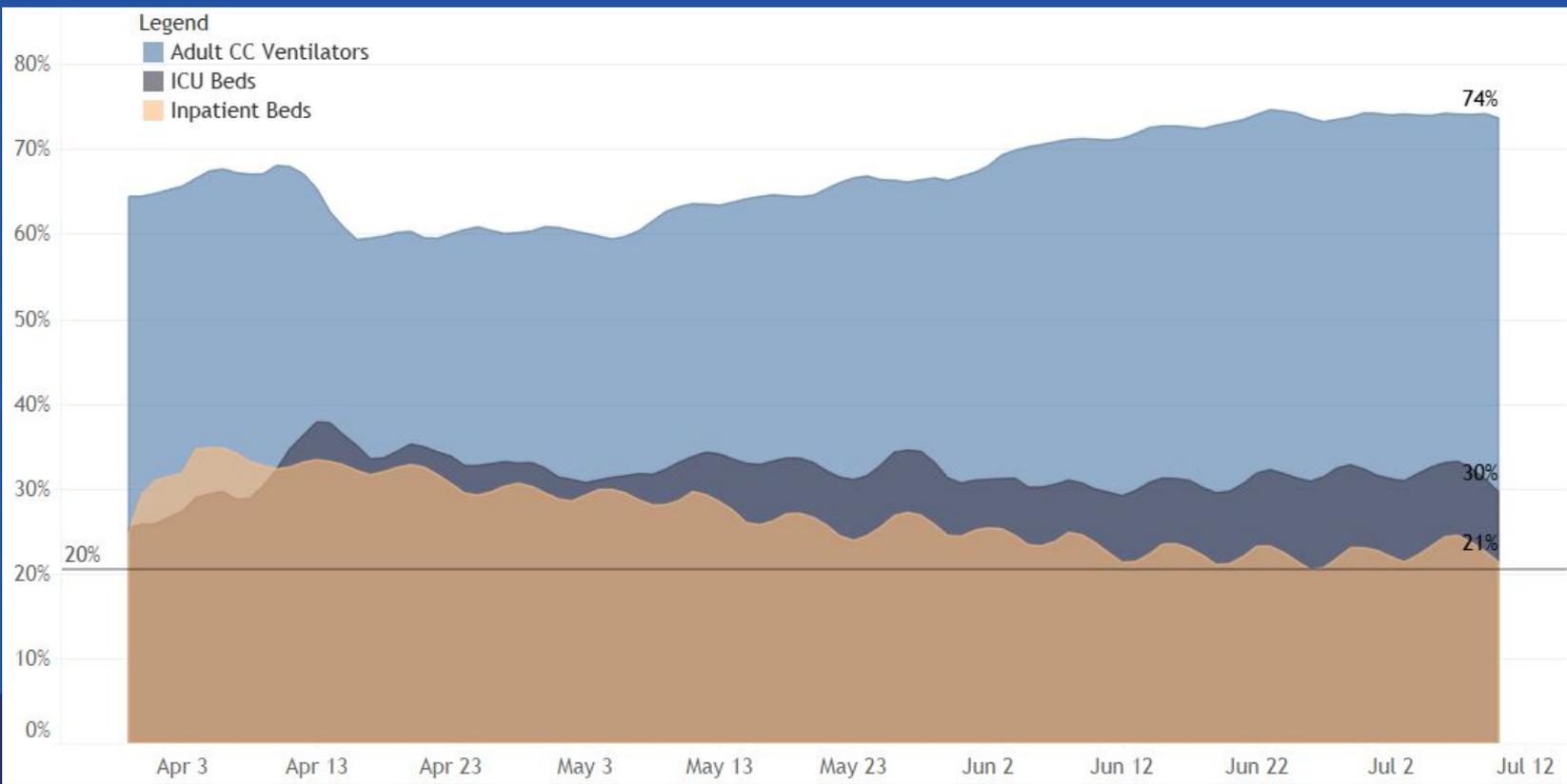
HOSPITALIZATIONS



Daily Count of New COVID-19 Hospital Admissions and 7 Day Moving Average Trend



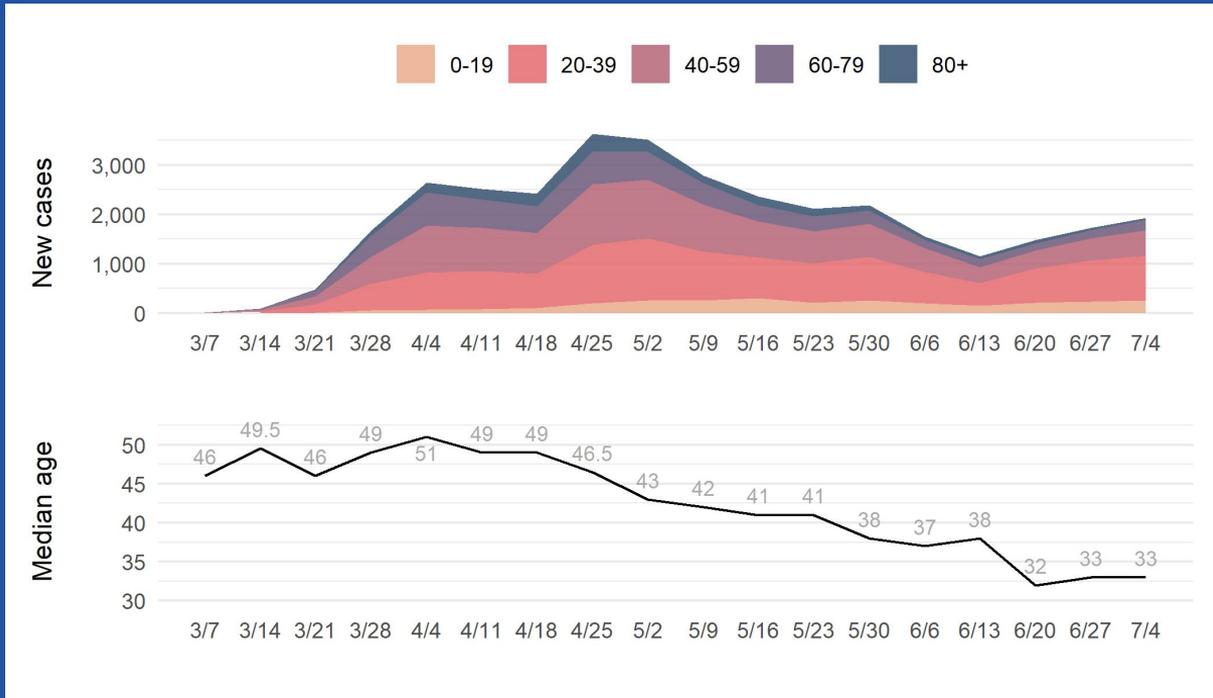
Availability of Hospital Beds, ICU Beds, Ventilators



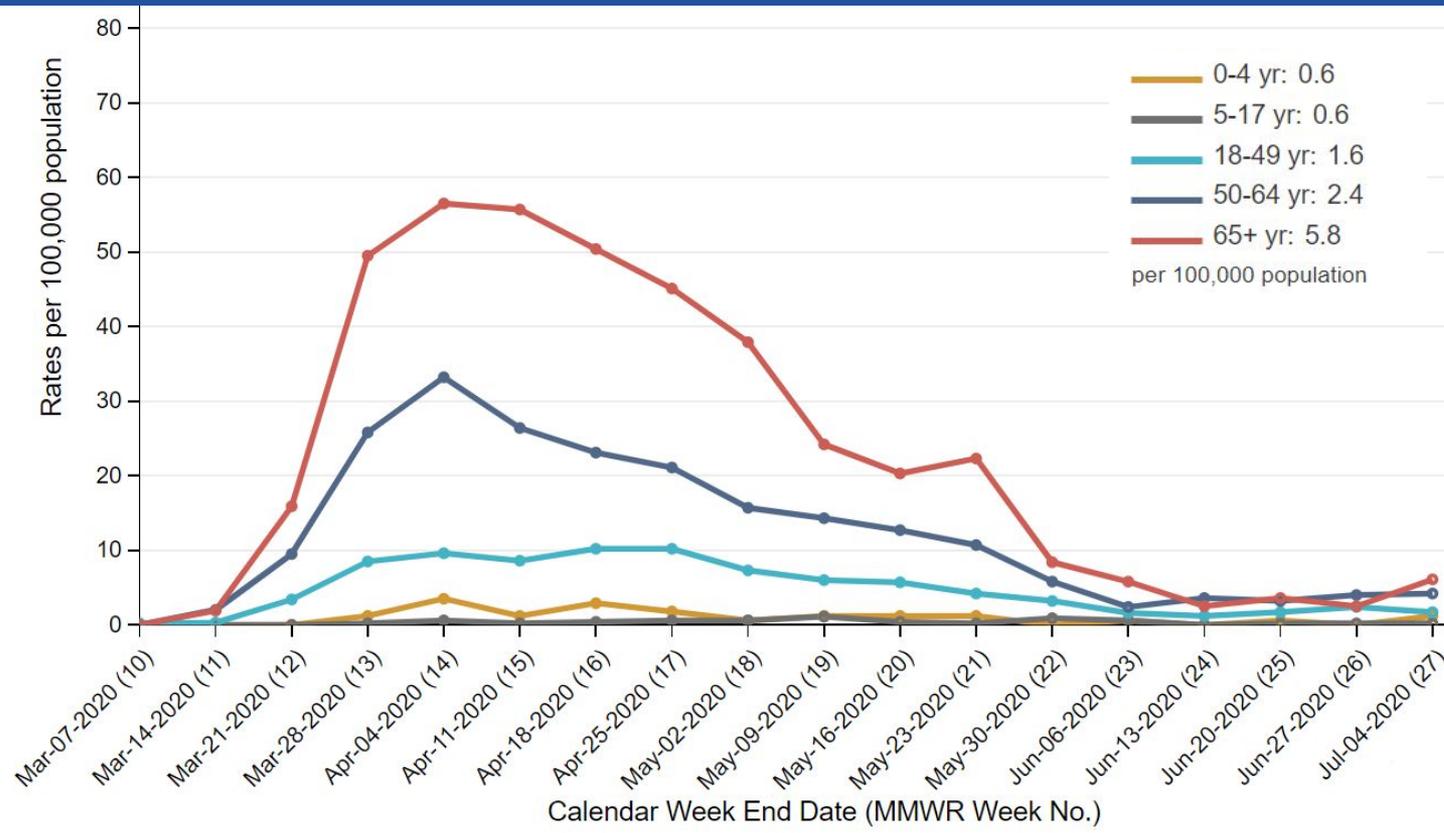
MEDIAN AGE OF NEW CASES

Average age for people testing positive has decreased to 33, down from average age in the upper 40s/low 50s in April.

Younger people are less likely to have severe symptoms, but can still infect others.



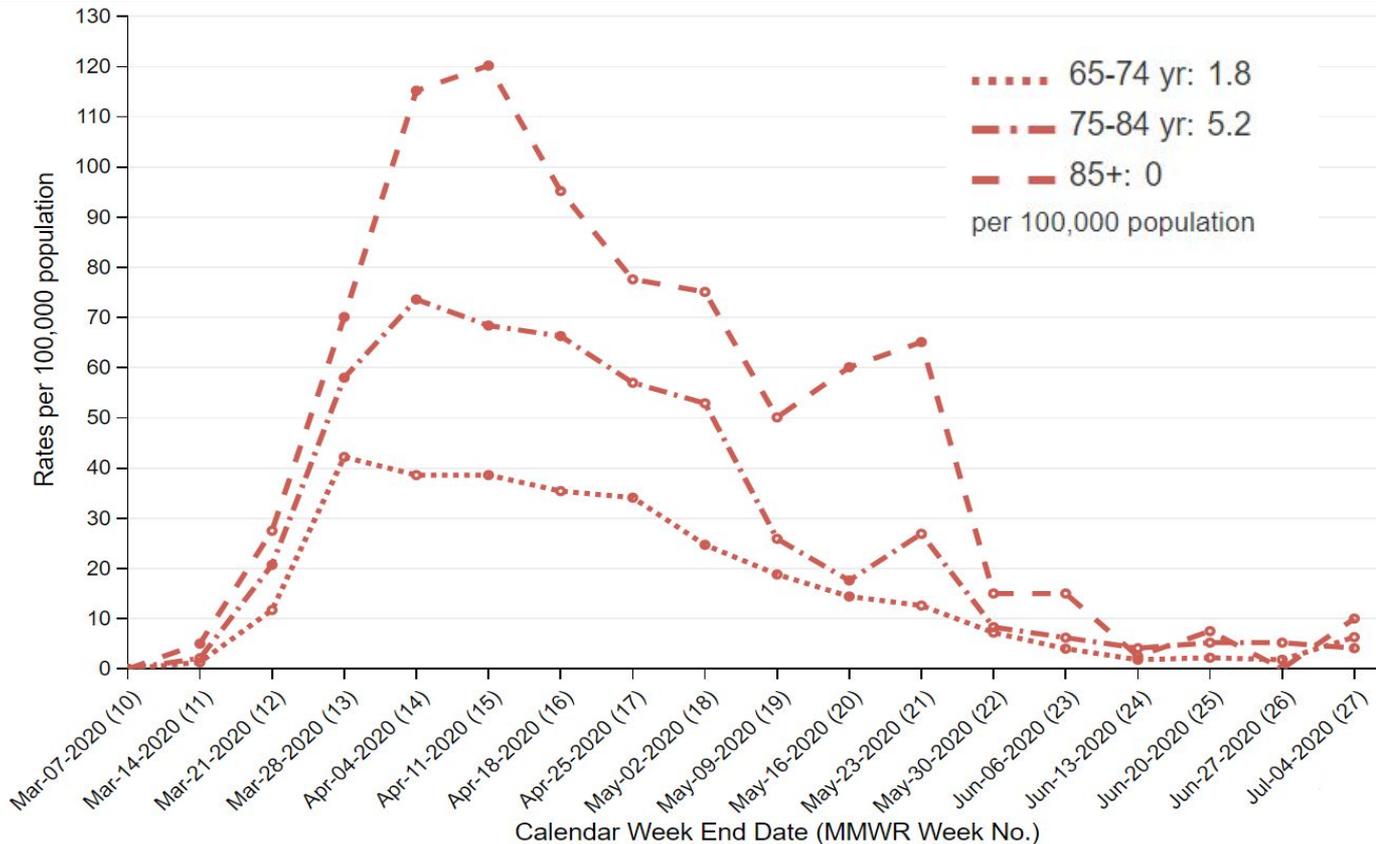
Hospitalization Rates by Age Group



https://gis.cdc.gov/grasp/COVIDNet/COVID19_3.html



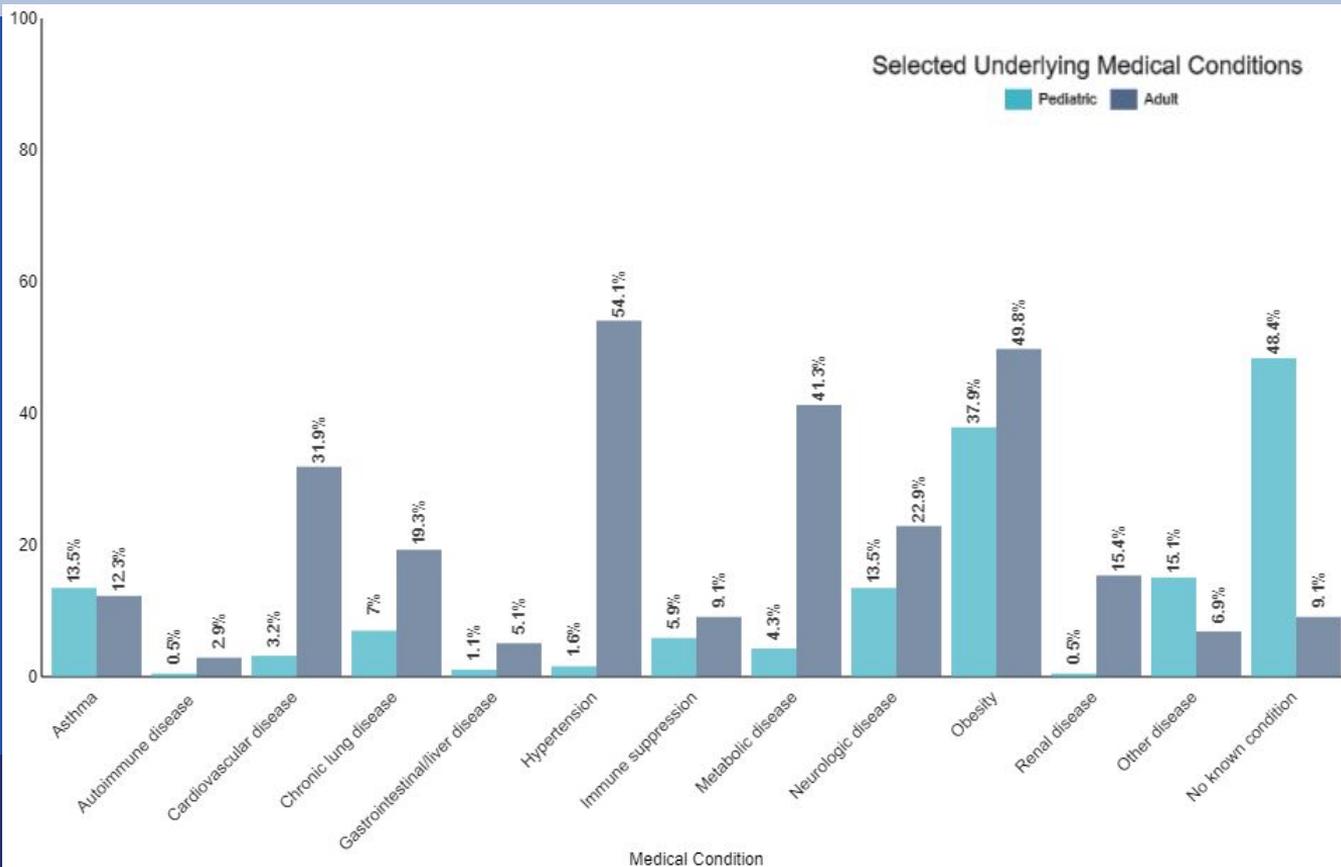
Hospitalization Rates by Age Group, >65 Years



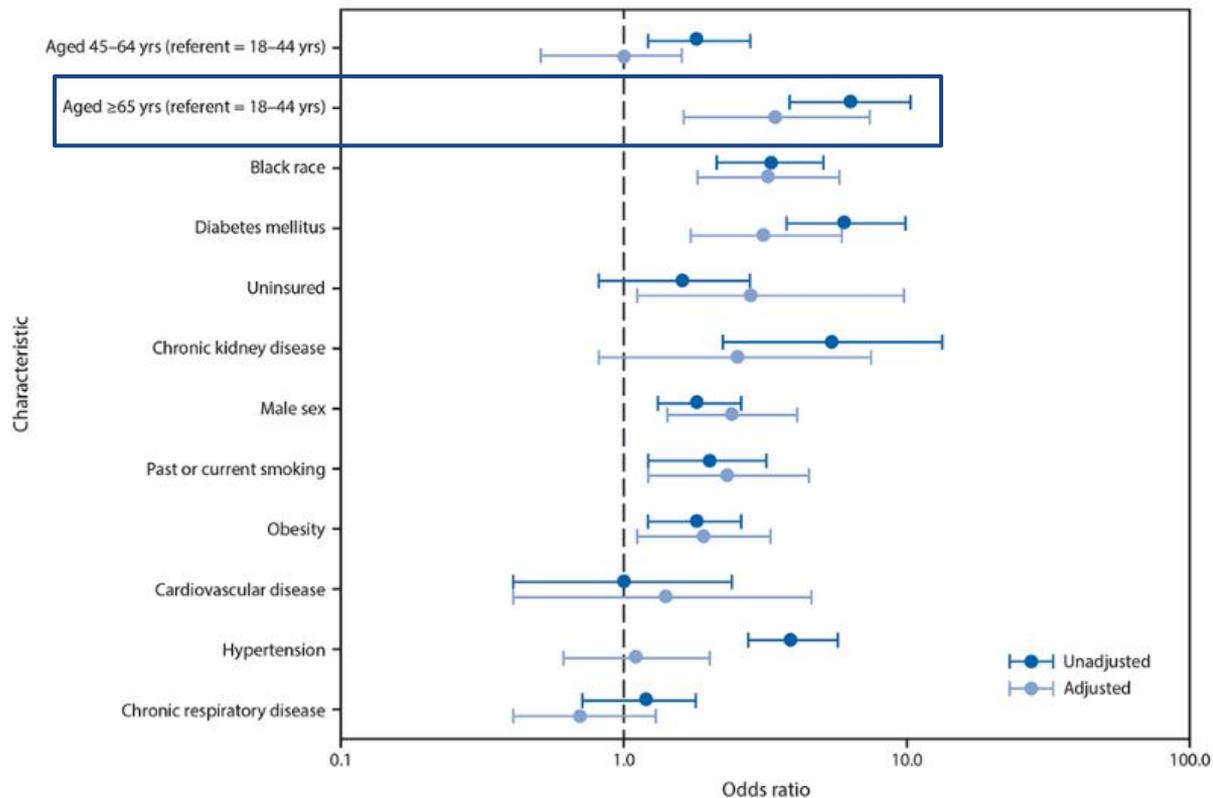
https://gis.cdc.gov/grasp/CVIDNet/COVID19_3.html



Underlying Medical Conditions Among Hospitalized Cases



Age as a Independent Risk Factor



* Adjusted for age, sex, race, obesity, past or current smoking, insurance status, obesity, and other underlying conditions (hypertension, diabetes mellitus, cardiovascular disease, chronic respiratory disease, and chronic kidney disease).

https://www.cdc.gov/mmwr/volume/69/wr/mm6925e1.htm?s_cid=mm6925e1_w



UK OpenSafely Study- 17M Patients

Table 2 | Hazard Ratios (HRs) and 95% confidence intervals (CI) for COVID-19 death

Characteristic	Category	COVID-19 Death HR (95% CI)	
		Age-sex adj	Fully adj
Age	18-<40	0.05 (0.04-0.07)	0.06 (0.04-0.08)
	40-<50	0.28 (0.23-0.33)	0.30 (0.25-0.36)
	50-<60	1.00 (ref)	1.00 (ref)
	60-<70	2.79 (2.52-3.10)	2.40 (2.16-2.66)
	70-<80	8.62 (7.84-9.46)	6.08 (5.52-6.69)
	80+	38.29 (35.02-41.87)	20.61 (18.72-22.70)

After adjusting for chronic disease, compared to those 50-59 years old, adults 60-69 have more 2X the risk of death due to COVID, adults 70-79 have 6X the risk, and those 80+ have more than 20X the risk.

Conversely, when controlling for age and other chronic diseases, people who are morbidly obese have ~2X the risk of death, diabetes is 1.3-2X the risk, stroke/dementia is ~2X the risk, and recent cancer is 2-3X the risk.