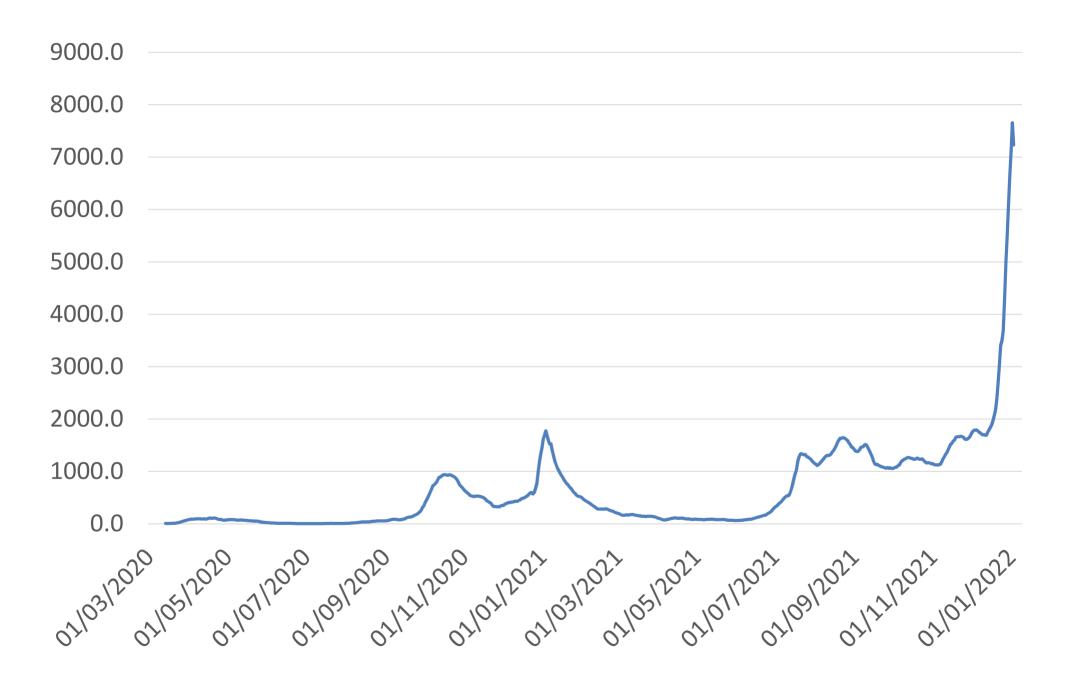
NI COVID-19 modelling update

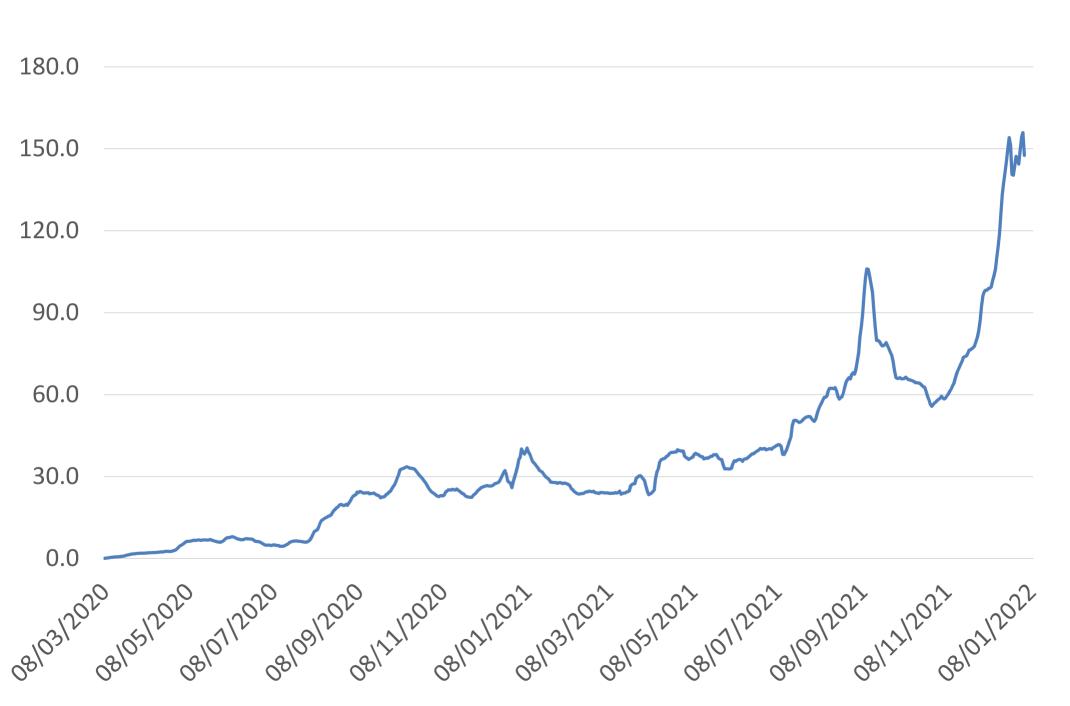
Modelling the COVID-19 epidemic; the Reproduction Number and other indicators

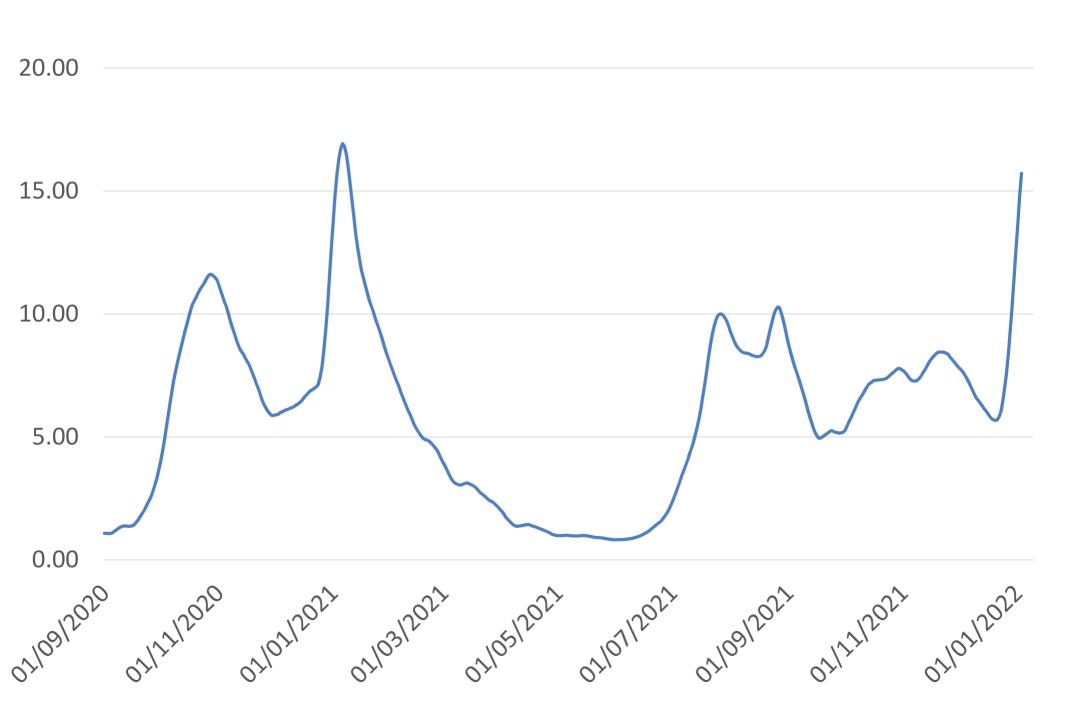
```
Current estimate of Rt (new positive tests): 1.50 - 1.90 (7 days previous 1.40-1.80)
Current estimate of Rt (hospital admissions): 1.10 - 1.30 (7 days previous 1.10-1.30)
 7 day incidence based on new positive tests: 2820 / 100k (7 days previous 1380)
 14 day incidence based on new positive tests: 4217/100k (7 days previous 2165)
7 day average of total positive individuals (pillar 1/2): 14.8% (7 days previous 7.7%)
       7 day average Pillar 2 test positivity: 33.3% (7 days previously 20.2%)
       7 day daily average tests completed: 42,316 (7 days previous 38,056)
Number of new positive tests in over 60s in last 7 days: 4307 (8 days previous 2005)
Proportion of total positive tests occurring in over 60s: 8.5% (9 days previous 6.5%)
     COVID-19 +ve hospital admission in last week: 280 (7 days previous 196)
            Number of COVID-19 inpatients: 362 (7 days previous 303)
                COVID-19 +ve ICU patients: 31 (7 days previous 32)
```

7 day rolling average new cases/day

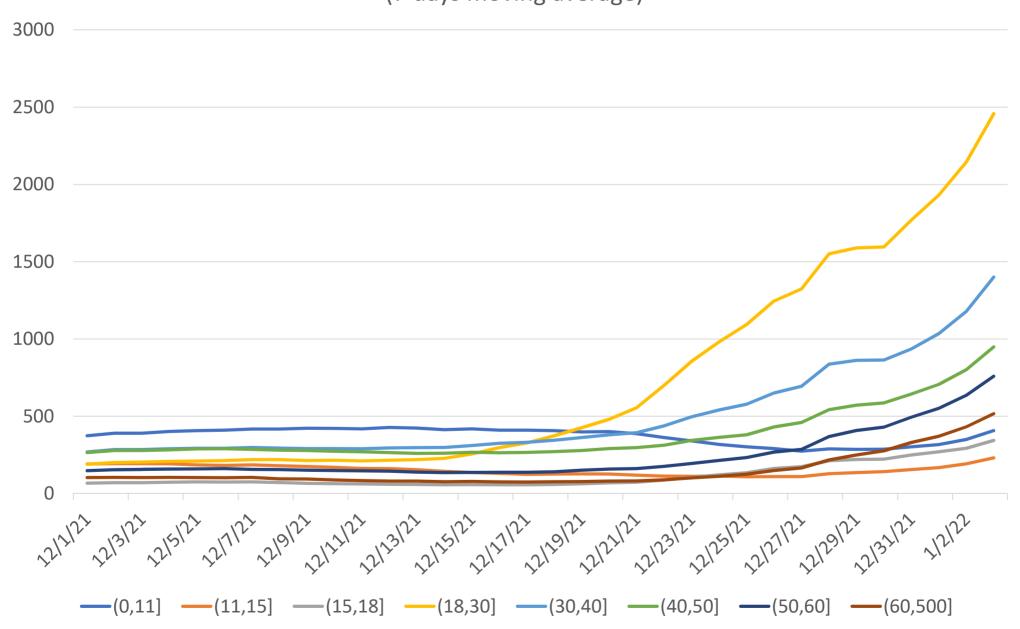


7 day rolling average tests per 1000 population





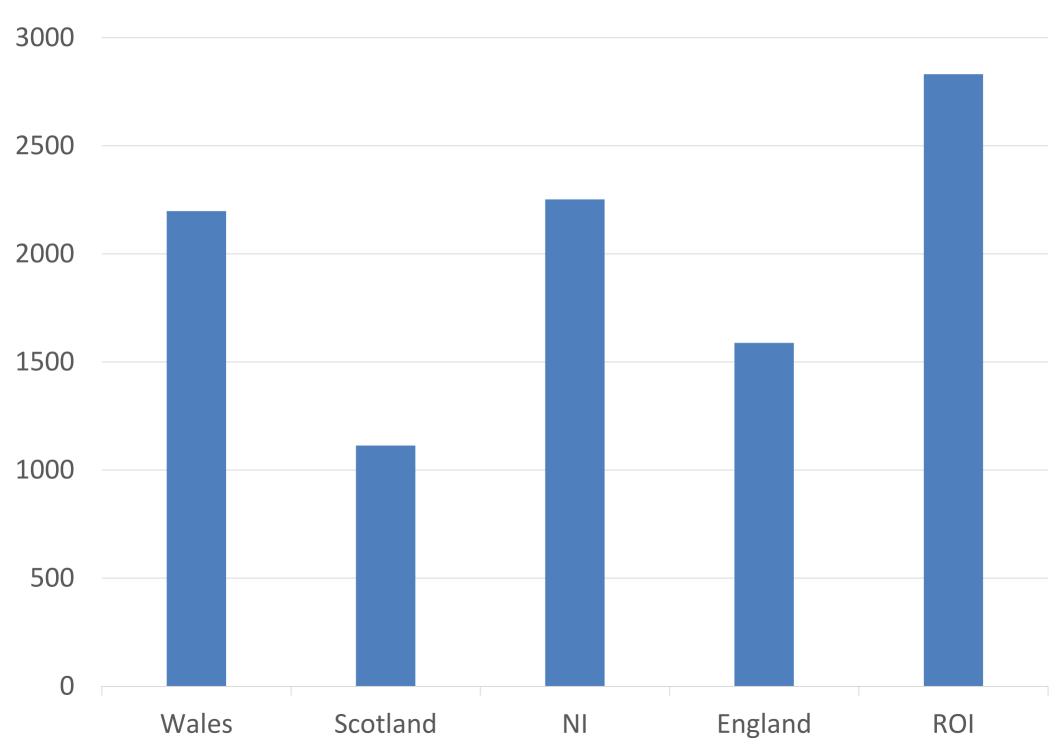
Daily Cases By Age Band (7 days moving average)



7-day total cases / 100,000 population by LGD

27th Dec	28th Dec	29th Dec	30th Dec	31st Dec	1st Jan	2nd Jan	3rd Jan	LGD
	1665	1638	1714				2350	Antrim and Newtownabbey
	1558	1505	1532				1882	Ards and North Down
	1281	1346	1479				2370	Armagh City, Banbridge and Craigavon
	1718	1705	1826				2491	Belfast
	1279	1358	1525				2432	Causeway Coast and Glens
	2266	2423	2947				4453	Derry City and Strabane
	1827	1996	2367				3598	Fermanagh and Omagh
	1653	1640	1712				2074	Lisburn and Castlereagh
	1132	1114	1245				1877	Mid and East Antrim
	1466	1547	1719				2822	Mid Ulster
	1526	1608	1884				2813	Newry, Mourne and Down

7 day cumulative total cases / 100k population

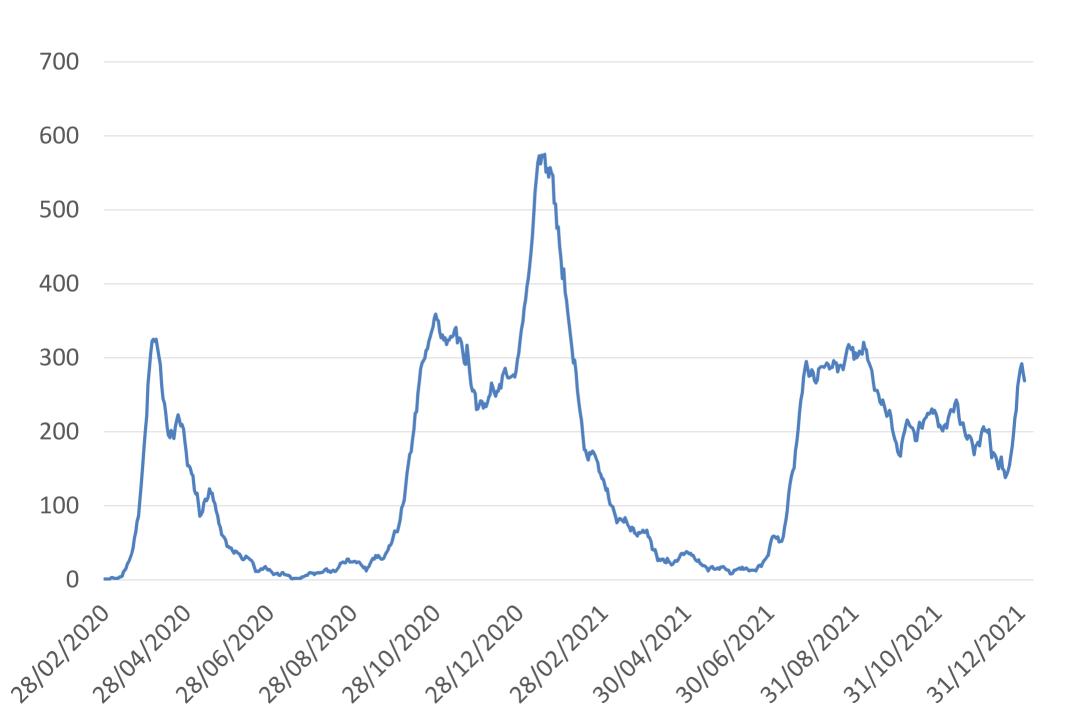


ONS COVID-19 Infection Survey

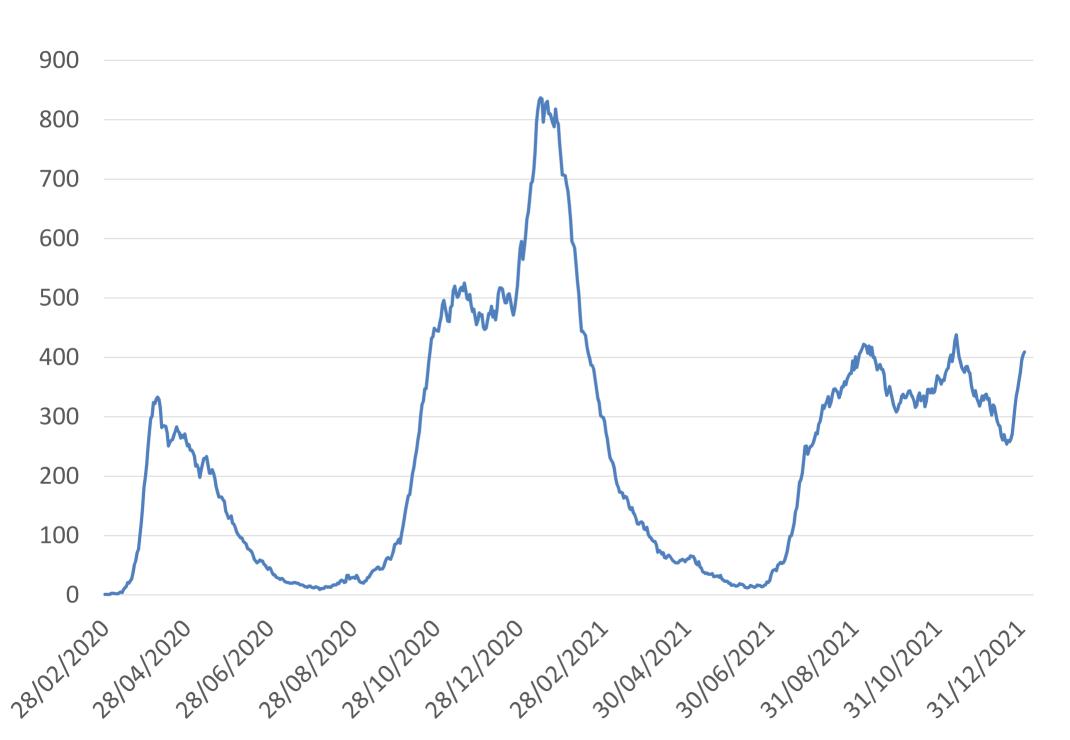
Week up to 23rd December

Country	Estimated average % of the population that had COVID-19	95% <i>CI</i>		Estimated number of people testing positive for COVID- 19	95% <i>CI</i>		Estimated average ratio of the population that had COVID-19	95% <i>CI</i>	
		Lower	Upper		Lower	Upper		Lower	Upper
England	3.71	3.58	3.84	2,024,700	1,951,200	2,096,300	1 in 25	1 in 30	1 in 25
Wales	2.52	2.14	2.93	76,500	65,100	89,200	1 in 40	1 in 45	1 in 35
Northern Ireland	2.59	2.06	3.19	47,500	37,800	58,600	1 in 40	1 in 50	1 in 30
Scotland	2.57	2.23	2.94	135,400	117,400	154,800	1 in 40	1 in 45	1 in 35

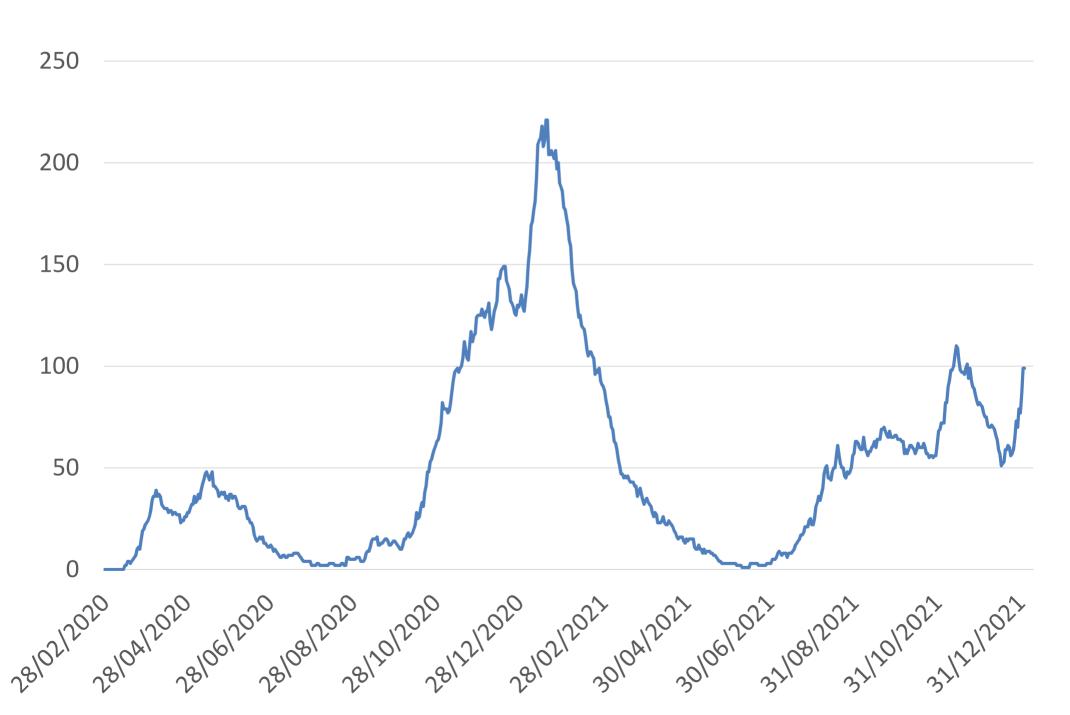
Source: Office for National Statistics – Coronavirus (COVID-19) Infection Survey



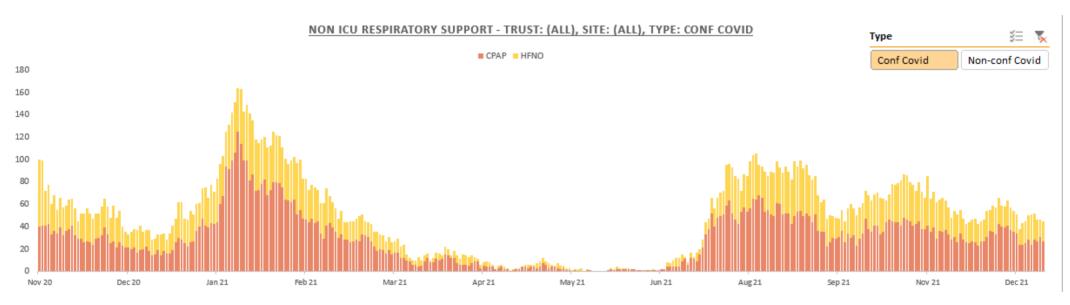
COVID +ve total inpatients

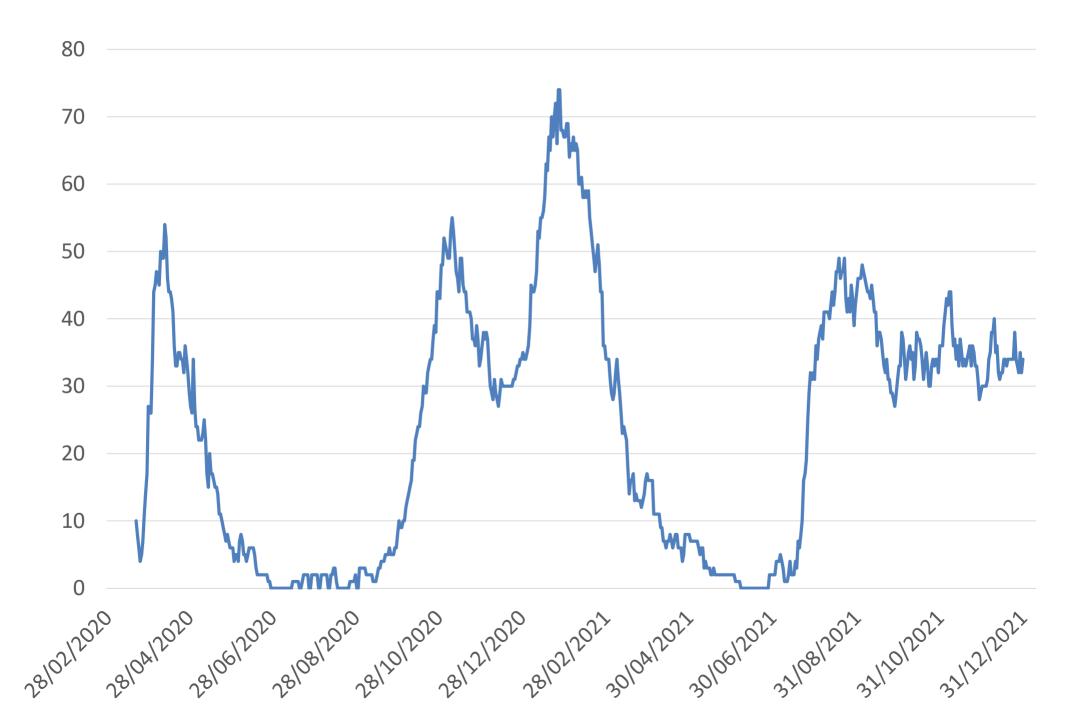


COVID +ve hospital acquired inpatients

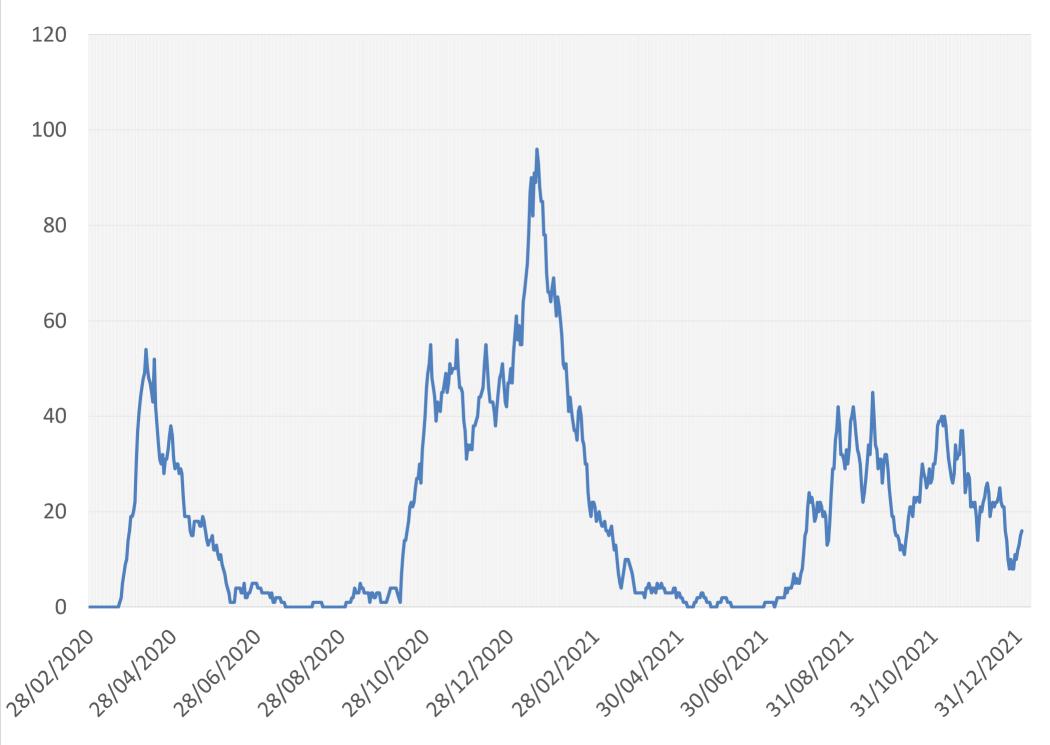


Non-ICU Respiratory Support (all Trusts)





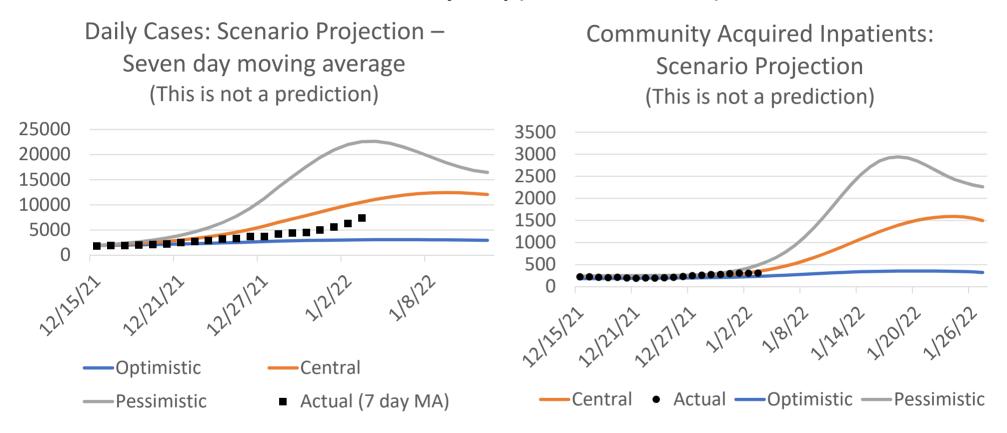
COVID-19 7 day total hospital deaths



Omicron Assumptions

Omicron (low escape)		
Efftectivess Against	No Booster (%)	Booster(%)
Infection	40	70
Hospitalisaton	80	95
Omicron (mid escape)		
Efftectivess Against	No Booster (%)	Booster(%)
Infection	30	60
Hospitalisaton	70	90
Omicron (high escape)		
Efftectivess Against	No Booster(%)	Booster(%)
Infection	20	50
Hospitalisation	60	85

Scenario 1: Boosters continue on current trajectory (with no further NPI's)



- Actual cases likely underestimated due to testing constraints and Xmas holidays
- Vaccination Run rate assumed at 15000 per day.
- Significant uncertainty remains around impact of Omicron.
- Potential hospital pressures remain uncertain