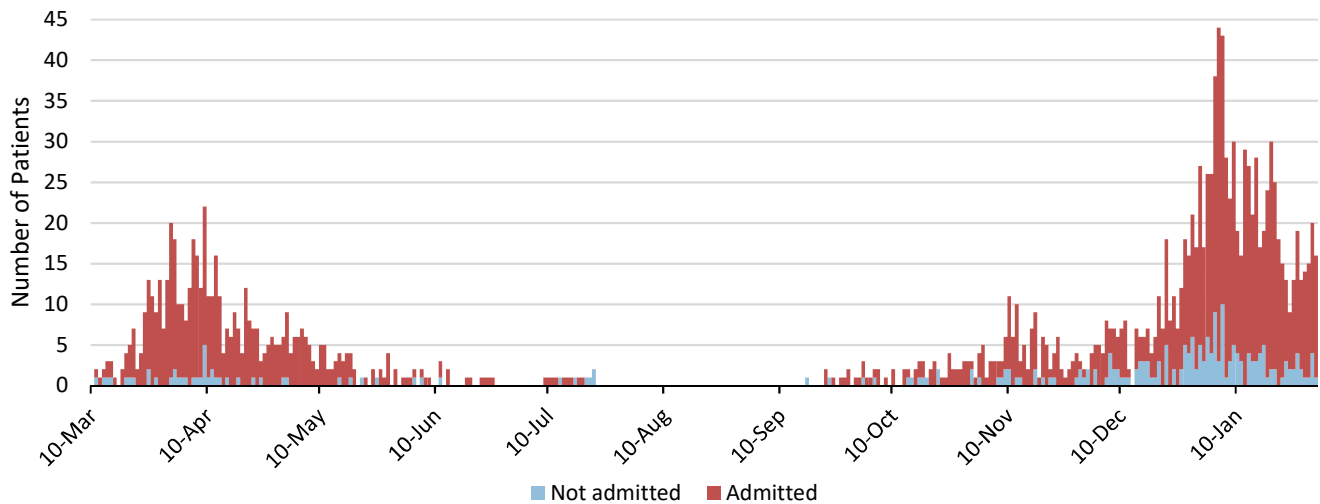


CUH COVID Report 12 – 2nd February 2021

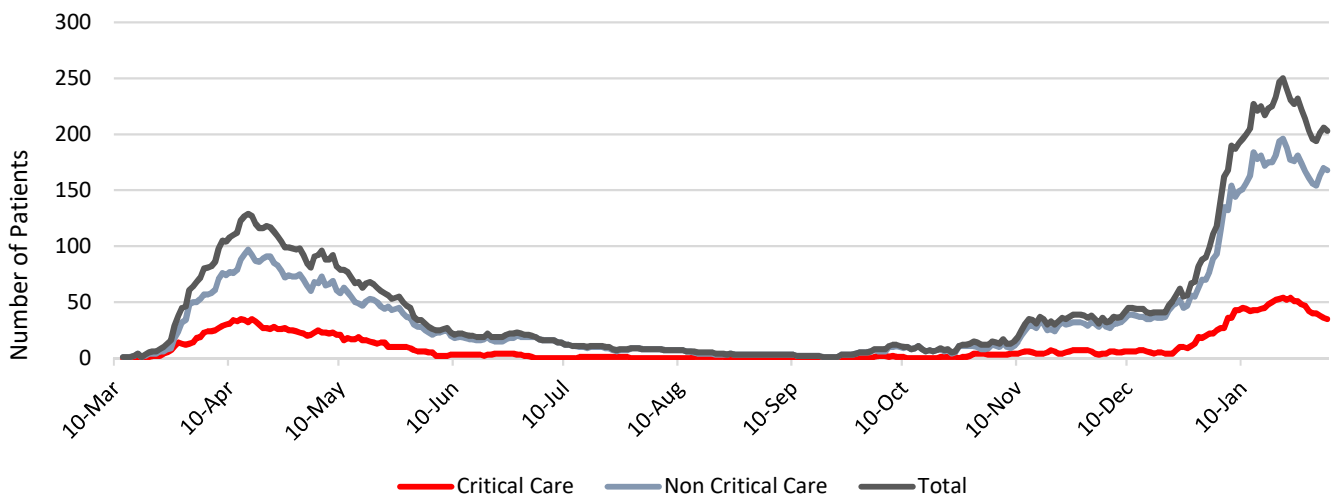
Report author – Ben Warne, ben.warne@addenbrookes.nhs.uk. Data correct as of 6AM 1st February 2021

For the purposes of this report patients have been presented as three “Cohorts” over the course of the pandemic, reflecting the national picture of COVID-19 in the UK. Cohort 1 represents the period from our first confirmed case in CUH on 10th March through to 31st July 2020. Cohort 2 spans the period from 1st August to 30th November, representing a period of comparably few cases within the Trust as well as changes to patient management (for example the use of dexamethasone following the results of the RECOVERY trial). Cohort 3 is taken from 1st December to present, reflecting a large rise in admissions and the increasing prevalence of the SARS-CoV-2 variant of concern 202012/01. When comparing cohorts, please consider that there is a lag time between swab positivity and patient outcome, particularly for Cohort 3 where we do not yet have complete data.

Confirmed SARS-CoV-2 Cases at CUH (by Swab Date)



Bed Occupancy of All Laboratory Confirmed COVID-19 Cases at CUH



Confirmed COVID Cases Summary:

Current Status of Patients	Cohort 1	Cohort 2	Cohort 3	Total
Current inpatients on medical wards	0	2 (1%)	168 (17%)	172 (10%)
Current inpatients on critical care	0	0	33 (3%)	33 (2%)
Discharged alive from inpatient stay	349 (66%)	129 (65%)	458 (47%)	936 (55%)
Swabbed in ED/N2/outpatients only*	43 (8%)	38 (19%)	162 (17%)	243 (14%)
Died as inpatients or within 30 days of first positive swab	119 (22%)	22 (11%)	132 (13%)	273 (16%)
Inpatient transfer from CUH to another hospital	21 (4%)	9 (5%)	28 (3%)	58 (3%)
Total	532	200	981	1713

*Note that an increasing number of outpatients have been swabbed as part of routine asymptomatic screening during Cohorts 2 and 3.

All Admissions (n=1470)

	Cohort 1 (n=489)	Cohort 2 (n=162)	Cohort 3 (n=819)	Total (n=1470)
Age, mean (range) median (IQR)	67 (0-98) 71 (55-82)	60 (3-93) 60 (44-78)	64 (0-102) 67 (50-80)	65 (0-102) 68 (51-80)
Paediatric (age <16 yrs)	10 (2%)	2 (1%)	15 (2%)	27 (2%)
Male gender (%)	288 (59%)	78 (48%)	434 (53%)	800 (54%)
Female gender (%)	201 (41%)	84 (52%)	385 (47%)	670 (46%)
Ethnicity – White	374 (76%)	100 (62%)	546 (67%)	1020 (69%)
Ethnicity – Black, Asian and minority ethnic	45 (9%)	30 (18%)	72 (9%)	147 (10%)
Ethnicity – missing/not stated	70 (14%)	32 (20%)	201 (25%)	303 (21%)
Charlson co-morbidity index, median (IQR)	1 (0-3)	1 (0-2)	1 (0-2)	1 (0-2)
Critical care admissions	95 (19%)	21 (13%)	156 (19%)	272 (19%)
Admissions out of CUH emergency catchment area	88/489 (18%)	30/161 (19%)	145/818 (18%)	263/1468 (18%)
Length of stay	Cohort 1 (n=239)	Cohort 2 (n=105)	Cohort 3 (n=341)	Total (n=685)
LOS* (days), mean (range) median (IQR)	14.6 (0.3-164.6) 8.8 (2.8-17.6)	6.9 (0.3-46.0) 2.7 (1.0-9.2)	6.1 (0.3-33.8) 3.8 (1.1-8.7)	9.2 (0.3-164.6) 5.0 (1.3-11.6)
Length of stay (min 30 days post first positive result)**	Cohort 1 (n=239)	Cohort 2 (n=105)	Cohort 3 (n=119)	Total (n=463)
LOS**(days), mean (range) median (IQR)	14.6 (0.3-164.6) 8.8 (2.8-17.6)	6.9 (0.3-46.0) 2.7 (1.0-9.2)	6.6 (0.3-33.8) 3.7 (1.0-9.0)	10.8 (0.3-164.6) 5.5 (1.6-13.2)

*discharged patients, not including readmissions, with community acquired infections); LOS = Length of stay, IQR = interquartile range

**patients diagnosed >30 days prior to report; discharged patients, not including readmissions, with community acquired infections); LOS = Length of stay, IQR = interquartile range

Fatalities (during hospital admission or within 30 days of first positive COVID swab collection)

	Cohort 1 (n=119)	Cohort 2 (n=22)	Cohort 3 (n=132)	Total (n=273)
Age, mean (range) median (IQR)	78 (0-97) 80 (73-87)	73 (43-93) 76 (63-83)	76 (25-101) 77 (66-86)	77 (0-101) 78 (69-86)
Male gender (%)	76 (64%)	14 (64%)	81 (61%)	171 (63%)
Female gender (%)	43 (36%)	8 (36%)	51 (39%)	102 (37%)
Ethnicity – White	91 (76%)	14 (64%)	91 (69%)	196 (72%)
Ethnicity – Black, Asian and minority ethnic	4 (3%)	4 (18%)	15 (11%)	23 (8%)
Ethnicity – missing/not stated	24 (20%)	4 (18%)	26 (20%)	54 (20%)
Critical care admission	28 (24%)	9 (41%)	44 (33%)	81 (30%)
Length of stay (days)*	Cohort 1 (n=77)	Cohort 2 (n=8)	Cohort 3 (n=60)	Total (n=145)
mean (range) median (IQR)	10.2 (0.5-65.9) 8.4 (4.3-13.5)	11.2 (3.3-23.5) 8.7 (4.1-18.7)	10.4 (0.1-65.9) 8.4 (4.3-14.7)	10.4 (0.1-65.9) 8.4 (4.3-14.7)

*community acquired cases only

Patients discharged from ED/N2 or length of stay <8 hrs (n=177)*

	Cohort 1 (n=53)	Cohort 2 (n=25)	Cohort 3 (n=99)	Total (n=124)
Age, mean (range) median (IQR)	48 (23-89) 46 (34-58)	40 (19-74) 38 (26-48)	45 (0-95) 41 (30-54)	45 (0-95) 42 (30-55)
Male gender (%)	34 (64%)	12 (48%)	43 (43%)	89 (50%)
Female gender (%)	19 (36%)	13 (52%)	56 (57%)	88 (50%)
Readmissions**	20 (38%)	6 (24%)	23 (23%)	49 (28%)

*Further 92 patients swabbed only in outpatient settings; **within 14 days of first positive swab

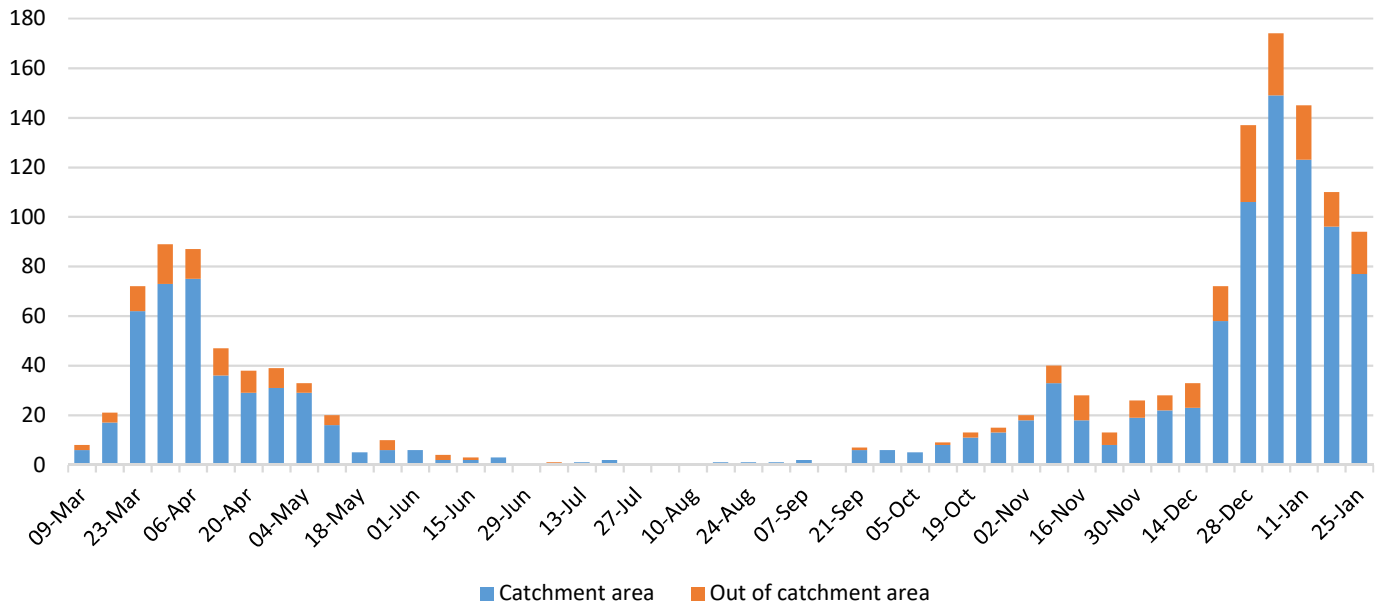
Admissions requiring critical care (n=272 – NB only laboratory-confirmed cases at CUH included)

	Cohort 1 (n=95)	Cohort 2 (n=21)	Cohort 3 (n=156)	Total (n=272)
Age, mean (range) median (IQR)	56 (0-82) 61 (48-69)	59 (3-83) 60 (56-65)	57 (1-85) 59 (49-67)	57 (0-85) 60 (49-67)
Paediatric (age <16 yrs)	4 (4%)	1 (5%)	5 (3%)	10 (4%)
Male gender (%)	66 (69%)	16 (76%)	98 (63%)	180 (66%)
Female gender (%)	29 (31%)	5 (24%)	58 (37%)	92 (34%)
Ethnicity – White	63 (66%)	14 (67%)	76 (49%)	153 (56%)
Ethnicity – Black, Asian and minority ethnic	15 (16%)	4 (19%)	30 (19%)	49 (18%)
Ethnicity – missing/not stated	17 (18%)	3 (14%)	50 (32%)	70 (26%)
Charlson co-morbidity index, median (IQR)	1 (0-2)	1 (0-3)	1 (0-2)	1 (0-2)
Length of stay (days)	Cohort 1	Cohort 2	Cohort 3	Total
Pre-ICU* – no. of pts mean (range) median (IQR)	79 1.7 (0.0-34.0) 0.3 (0.1-1.7)	15 3.0 (0.1-23.3) 0.9 (0.2-3.9)	101 4.2 (0.1-23.3) 0.9 (0.2-2.5)	195 1.9 (0.0-34.0) 0.5 (0.2-2.0)
On ICU** – no. of pts mean (range) median (IQR)	94 18.4 (0.3-73.0) 13.9 (5.3-26.7)	21 11.1 (2.4-32.3) 7.7 (4.9-13.8)	125 10.7 (0.2-61.8) 7.4 (3.4-14.0)	240 13.7 (0.2-73.0) 9.3 (4.6-19.1)
Post-ICU*** – no. of pts mean (range) median (IQR)	53 16.3 (0-103.8) 7.8 (4.1-14.1)	11 5.7 (0-16.8) 4.6 (3.1-8.0)	41 6.3 (1.0-24.0) 5.0 (3.2-6.3)	105 11.3 (0-103.8) 5.7 (3.9-11.0)
Length of stay (min 30 days pos first positive result)	Cohort 1	Cohort 2	Cohort 3	Total
On ICU – number of pts mean (range) median (IQR)	94 18.4 (0.3-73.0) 13.9 (5.3-26.7)	21 11.1 (2.4-32.3) 7.7 (4.9-13.8)	49 12.7 (0.4-61.8) 10.0 (5.0-17.9)	164 15.7 (0.2-73.0) 11.7 (5.3-22.7)
Post-ICU*** – no. of pts mean (range) median (IQR)	53 16.3 (0-103.8) 7.8 (4.1-14.1)	11 5.7 (0-16.8) 4.6 (3.1-8.0)	20 6.2 (1.5-24.0) 4.0 (2.9-6.1)	84 12.5 (0-103.8) 5.7 (3.2-11.8)
Outcome (min 30 days post first positive result)	Cohort 1 (n=95)	Cohort 2 (n=21)	Cohort 3 (n=54)	Total (n=170)
Discharged to ward	0	1 (5%)	8 (14.8%)	9 (5%)
Current Inpatient on ICU	0	0	5 (9%)	5 (3%)
Transferred	11 (12%)	0	1 (2%)	12 (7%)
Discharged from hospital	56 (59%)	11 (52%)	20 (37%)	87 (51%)
Died in hospital or within 30 days of positive swab	28 (29%)	9 (43%)	20 (37%)	57 (34%)

*community acquired cases, excluding transfers from other hospitals; **cases discharged or transferred from critical care, or deceased;

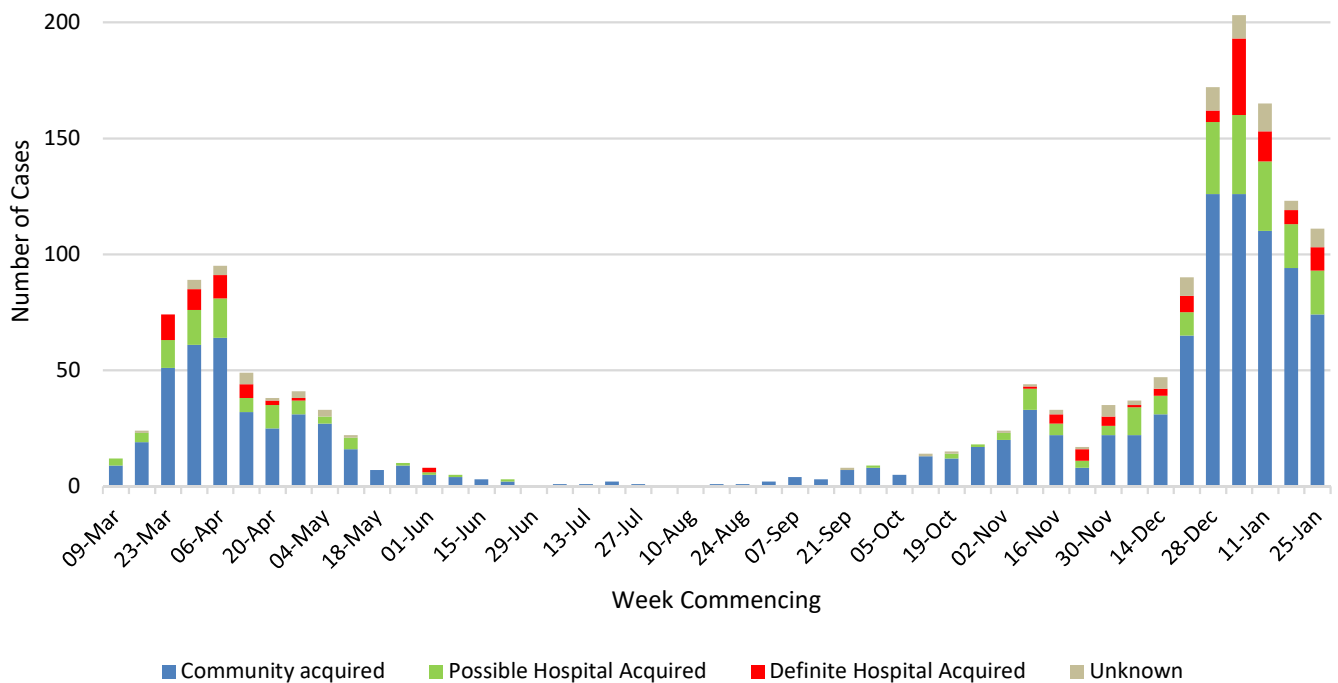
***cases discharged from hospital

Confirmed Inpatient Cases of COVID-19 at CUH, by Emergency Care Catchment Area



Catchment area defined by patient's registered GP practice or (if this is not available) residential postcode.

Hospital Acquired COVID-19 Cases Diagnosed at CUH



Note – Only patients with samples sent from CUH and confirmed positive are included in this report.

If you have any questions, please email me – ben.warne@addenbrookes.nhs.uk

Data underlying this report generated from tools prepared by Peter Driscoll and Stuart Wills.