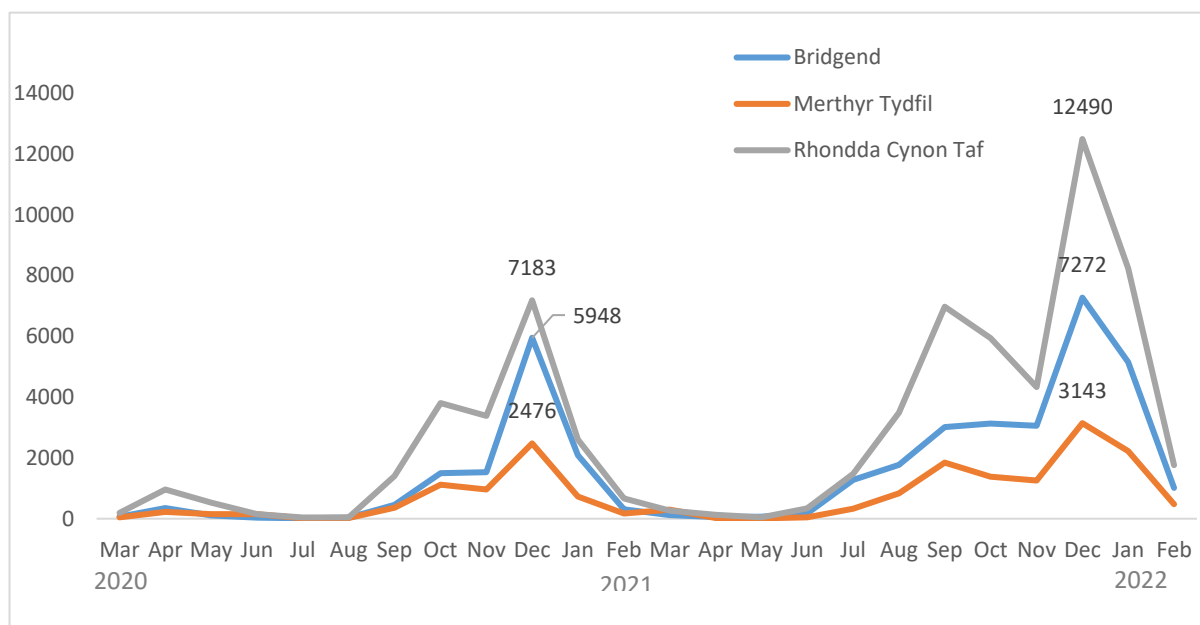


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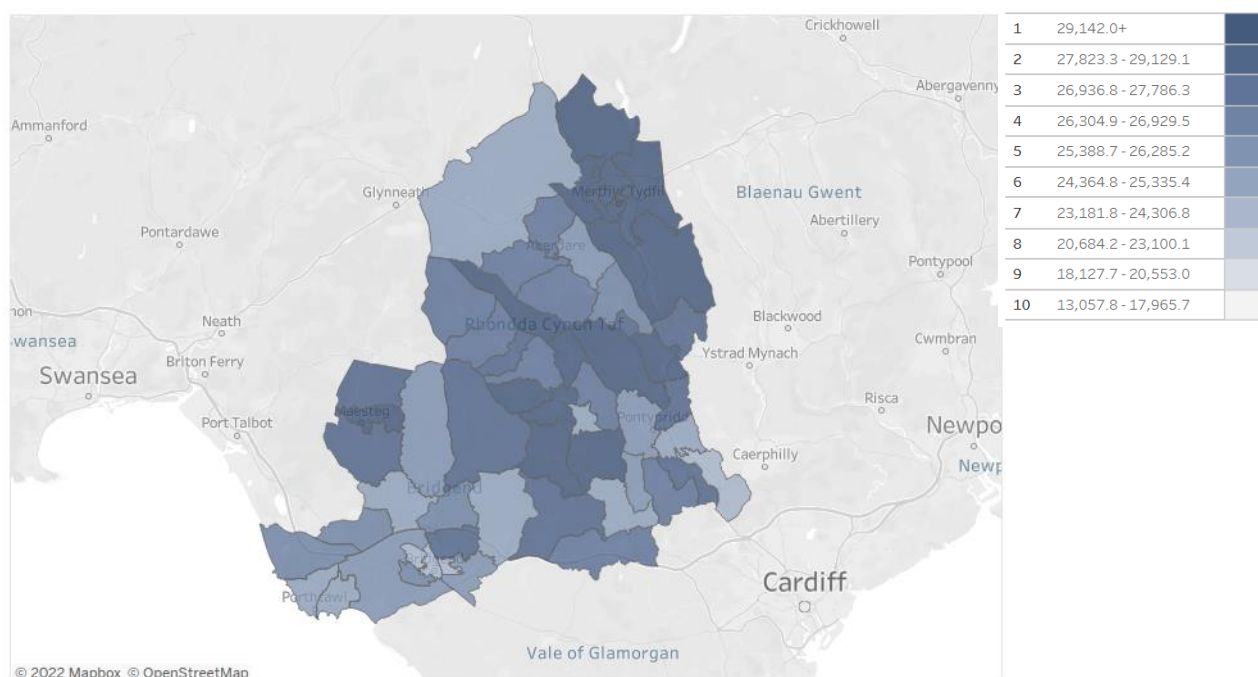
Incidence

Figure 1 – Count of Covid 19 cases over time by local authority



There have been approximately 123,200 Covid 19 cases since March 2020. Figure 1 shows that cases have peaked during winter seasons but smaller peaks can be seen in September at the beginning of the school year. Figure 2 shows that Merthyr Tydfil has the highest cumulative incidence rate in CTM

Figure 2 – Cumulative incidence per 100k residents from March 2020 by MSOA in CTM



Mortality

Figure 3 – Number of Covid 19 deaths by year and local authority since March 2020

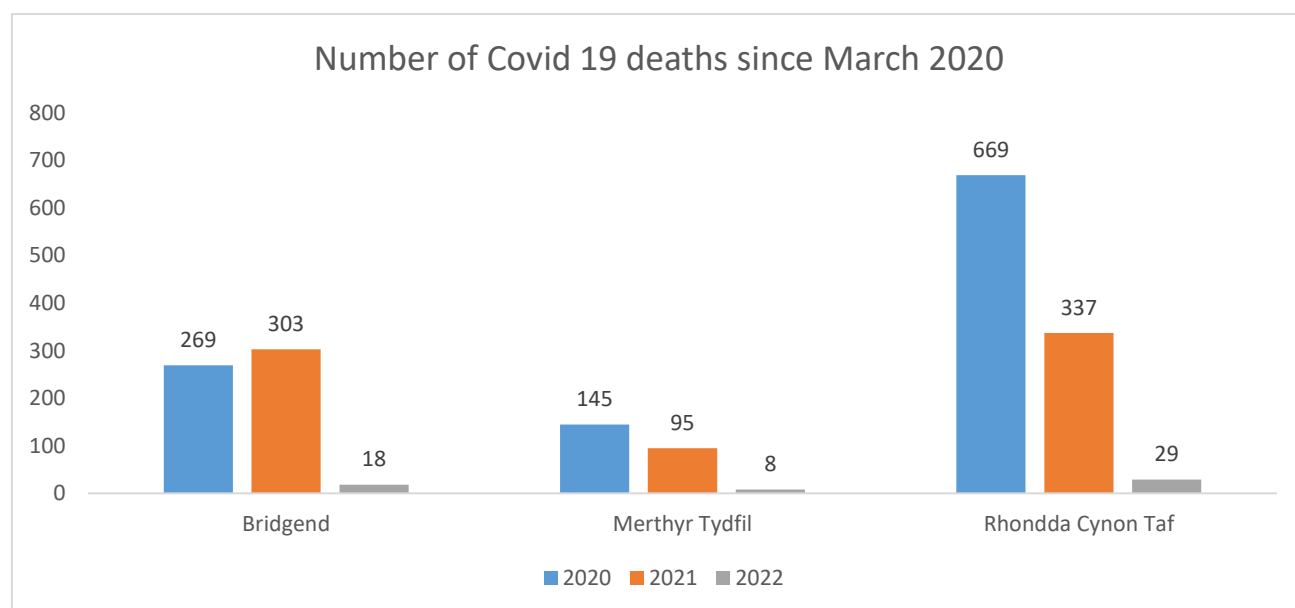
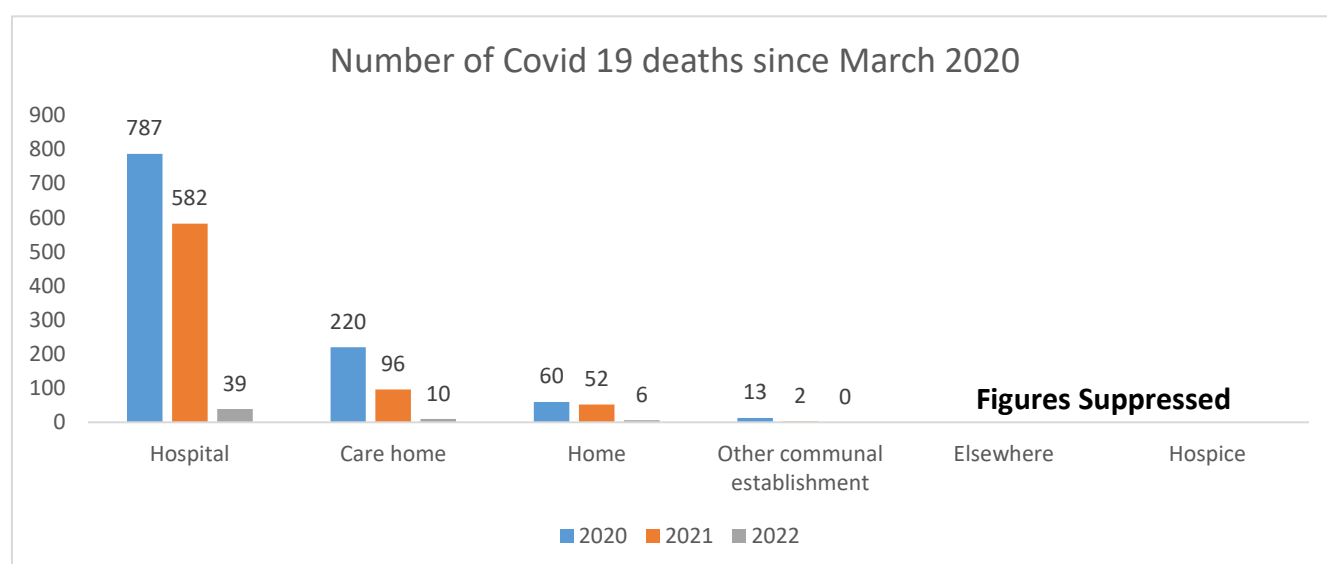


Figure 4 – Number of Covid 19 deaths in CTM by year and place of death



There have been 1,873 Covid 19 deaths in CTM since March 2020. In Merthyr Tydfil and Rhondda Cynon Taf, the highest number of Covid 19 deaths in their local authority occurred in 2020 however Bridgend saw the highest number of deaths in 2021 (Figure 3). The majority of deaths (75%) occurred in hospitals across CTM and only 1 death occurred in a hospice in the past 2 years in Figure 4.

Figure 5 – Proportion of Covid 19 deaths in Wales by sex and age group

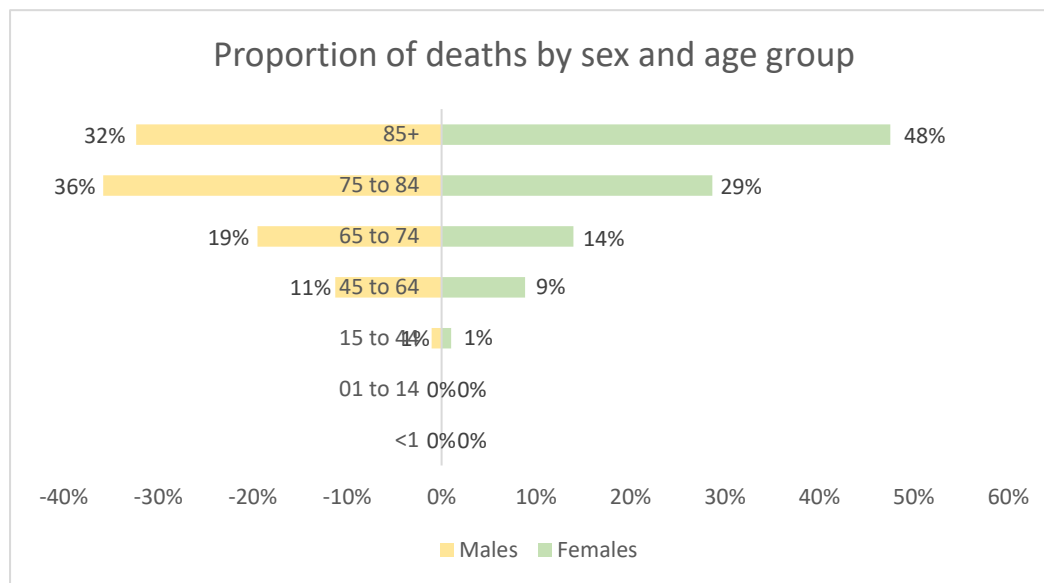
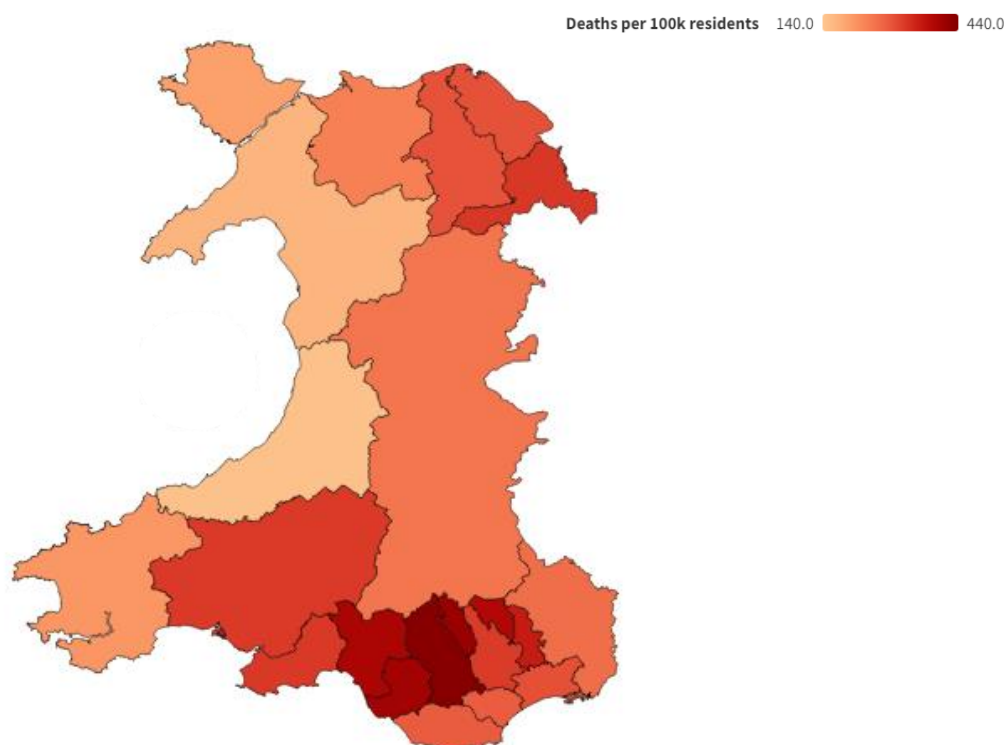


Figure 6 – Cumulative mortality rate in Wales by local authority since March 2020



Among men, the proportion of deaths of men aged between 75 and 84 are similar to the proportion of deaths for men aged 85 and over. However among women, a much higher proportion of deaths occurred among women aged 85 and over compared to those aged between 75 and 84. The highest rate of deaths in Wales occurred in Rhondda Cynon Taf (431.6 per 100k residents) and figure 6 shows that CTM has the highest death rates compared to other areas in Wales.

Covid 19 Admissions and Occupancy

Figure 7 – Number of patients with community acquired infections admitted to CTM hospitals

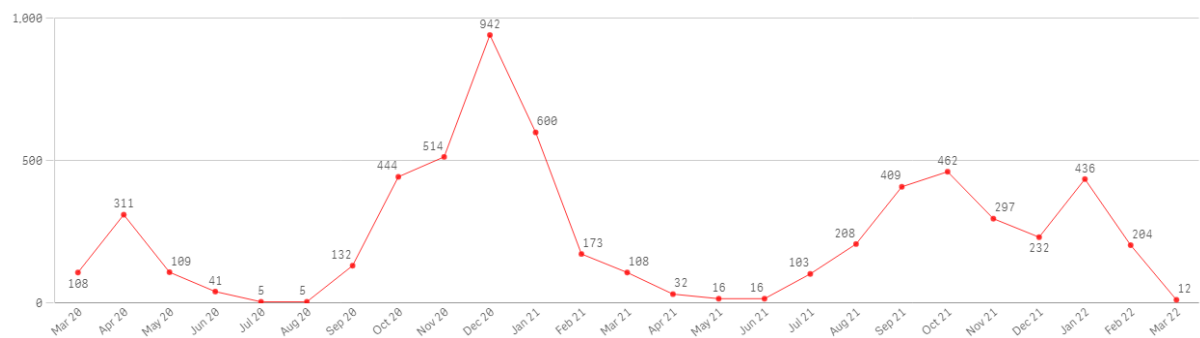


Figure 8 – Total ICU patient bed days by acute hospital in CTM since March 2020

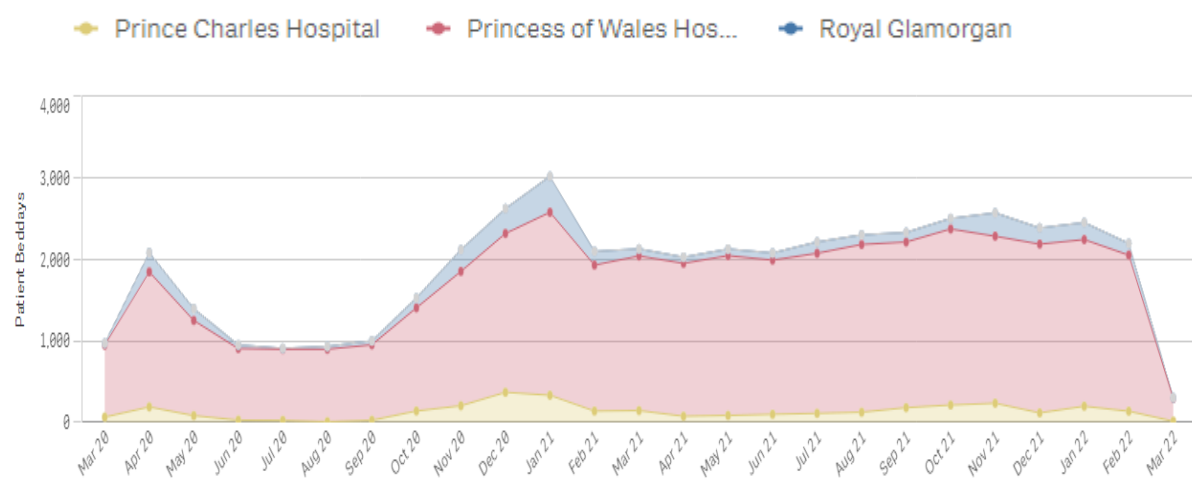
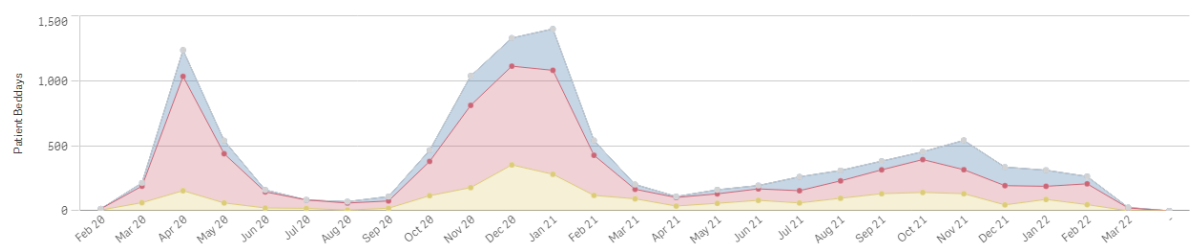


Figure 9 – Total ICU bed days for patients on vents by acute hospital in CTM since March 2020



The admissions and ICU occupancy charts follow identical trends over the past 2 years. Although incidence peaked in the 2021/22 winter season, we can see here that admissions peaked the year before and didn't follow the same pattern as incidence. This is most likely due to the Covid 19 vaccination rollout in Jan 2021.

Factors that have played in incidence and mortality include the existing inequalities, level of support required within closed settings, mental health and wellbeing of TTP staff, maintaining performance of services, agile workforce and financial planning and, public response and behaviours.

Vaccinations

Figure 9 – 11 – Coverage of COVID-19 vaccination by age group and sex, CTMUHB, at 10/02/2022

At least dose 1:

Age Group	Male				Female			
	Denominator	Vaccinated (n)	(%)	95% CI	Denominator	Vaccinated (n)	(%)	95% CI
80+	75,478	72,226	95.7	(95.5-95.8)	106,323	102,999	96.9	(96.8-97)
70-79	155,400	149,732	96.4	(96.3-96.4)	168,376	163,171	96.9	(96.8-97)
60-69	196,160	182,789	93.2	(93.1-93.3)	199,975	190,474	95.2	(95.2-95.3)
50-59	234,378	207,419	88.5	(88.4-88.6)	229,881	214,629	93.4	(93.3-93.5)
40-49	202,467	164,444	81.2	(81-81.4)	191,813	171,404	89.4	(89.2-89.5)
30-39	222,255	169,353	76.2	(76-76.4)	213,520	178,201	83.5	(83.3-83.6)
18-29	248,640	195,474	78.6	(78.5-78.8)	238,961	196,131	82.1	(81.9-82.2)
16-17	36,234	26,856	74.1	(73.7-74.6)	34,426	26,558	77.1	(76.7-77.6)
12-15	76,004	43,156	56.8	(56.4-57.1)	72,175	42,137	58.4	(58-58.7)

Two dose course:

Age Group	Male				Female			
	Denominator	Vaccinated (n)	(%)	95% CI	Denominator	Vaccinated (n)	(%)	95% CI
80+	75,478	71,873	95.2	(95.1-95.4)	106,323	102,253	96.2	(96.1-96.3)
70-79	155,400	148,954	95.9	(95.8-96)	168,376	162,209	96.3	(96.2-96.4)
60-69	196,160	180,904	92.2	(92.1-92.3)	199,975	188,524	94.3	(94.2-94.4)
50-59	234,378	203,830	87.0	(86.8-87.1)	229,881	211,537	92.0	(91.9-92.1)
40-49	202,467	158,869	78.5	(78.3-78.6)	191,813	167,035	87.1	(86.9-87.2)
30-39	222,255	159,456	71.7	(71.6-71.9)	213,520	169,529	79.4	(79.2-79.6)
18-29	248,640	178,188	71.7	(71.5-71.8)	238,961	180,799	75.7	(75.5-75.8)
16-17	36,234	19,728	54.4	(53.9-55)	34,426	19,745	57.4	(56.8-57.9)
12-15	76,004	24,657	32.4	(32.1-32.8)	72,175	24,385	33.8	(33.4-34.1)

Booster:

Age Group	Male				Female			
	Denominator	Vaccinated (n)	(%)	95% CI	Denominator	Vaccinated (n)	(%)	95% CI
80+	75,478	68,504	90.8	(90.6-91)	106,323	96,266	90.5	(90.4-90.7)
70-79	155,400	142,188	91.5	(91.4-91.6)	168,376	153,800	91.3	(91.2-91.5)
60-69	196,160	169,185	86.2	(86.1-86.4)	199,975	174,979	87.5	(87.4-87.6)
50-59	234,378	181,643	77.5	(77.3-77.7)	229,881	188,369	81.9	(81.8-82.1)
40-49	202,467	126,227	62.3	(62.1-62.6)	191,813	137,656	71.8	(71.6-72)
30-39	222,255	107,797	48.5	(48.3-48.7)	213,520	121,244	56.8	(56.6-57)
18-29	248,640	103,041	41.4	(41.2-41.6)	238,961	112,477	47.1	(46.9-47.3)
16-17	36,234	1,066	2.9	(2.8-3.1)	34,426	1,087	3.2	(3-3.3)

Figure 12-14 - Coverage of at least dose 1 of COVID-19 vaccination by risk group and sex, CTMUHB, at 10/02/2022

At least dose 1:

Priority Group	Male				Female			
	Denominator	Vaccinated (n)	(%)	95% CI	Denominator	Vaccinated (n)	(%)	95% CI
Care home residents	4,060	3,984	98.1	(97.7-98.5)	9,572	9,428	98.5	(98.2-98.7)
Care home workers	7,050	6,689	94.9	(94.3-95.4)	30,638	29,106	95.0	(94.7-95.2)
Health care workers	33,826	32,939	97.4	(97.2-97.5)	107,045	104,372	97.5	(97.4-97.6)
CEV aged 16-69 years	33,384	31,766	95.2	(94.9-95.4)	43,264	41,429	95.8	(95.6-95.9)
None of the above	1,402,403	1,137,543	81.1	(81-81.2)	1,296,990	1,102,483	85.0	(84.9-85.1)

Full two dose course:

Priority Group	Male				Female			
	Denominator	Vaccinated (n)	(%)	95% CI	Denominator	Vaccinated (n)	(%)	95% CI
Care home residents	4,060	3,934	96.9	(96.3-97.4)	9,572	9,340	97.6	(97.2-97.9)
Care home workers	7,050	6,575	93.3	(92.7-93.8)	30,638	28,524	93.1	(92.8-93.4)
Health care workers	33,826	32,520	96.1	(95.9-96.3)	107,045	103,192	96.4	(96.3-96.5)
CEV aged 16-69 years	33,384	31,342	93.9	(93.6-94.1)	43,264	40,845	94.4	(94.2-94.6)
None of the above	1,402,403	1,072,089	76.4	(76.4-76.5)	1,296,990	1,044,116	80.5	(80.4-80.6)

Booster:

Priority Group	Male				Female			
	Denominator	Vaccinated (n)	(%)	95% CI	Denominator	Vaccinated (n)	(%)	95% CI
Care home residents	4,058	3,596	88.6	(87.6-89.6)	9,572	8,757	91.5	(90.9-92)
Care home workers	7,046	5,481	77.8	(76.8-78.8)	30,635	23,292	76.0	(75.5-76.5)
Health care workers	33,825	28,908	85.5	(85.1-85.8)	107,043	91,331	85.3	(85.1-85.5)
CEV aged 16-69 years	33,384	23,101	69.2	(68.7-69.7)	43,264	29,233	67.6	(67.1-68)
None of the above	1,326,406	838,565	63.2	(63.1-63.3)	1,224,820	833,265	68.0	(67.9-68.1)

As expected, coverage is highest in the older age groups as the vaccine rollout prioritised these age groups. In those aged 40 and over, coverage for the two dose course is similar to coverage for one dose. However across all age groups, coverage is higher among women than men. Booster coverage drops significantly in those aged 50 and under; from 79.7% in those aged 50-59 to 67.1% in those aged 40-49. Significant differences in booster coverage between men and women can be seen in those aged 70 and under. Vaccine coverage is highest among care home residents and health care workers.

Figure 15-17 - Coverage of one dose and two doses of COVID-19 vaccination by age and ethnic groups, CTMUHB at 10/02/2022

At least dose 1:

Age Group	White				Black, Asian, Mixed and Other Combined			
	Denominator	Vaccinated (n)	(%)	95% CI	Denominator	Vaccinated (n)	(%)	95% CI
80+	141,891	138,979	97.9	(97.9-98)	1,711	1,542	90.1	(88.6-91.5)
70-79	273,826	266,682	97.4	(97.3-97.5)	3,680	3,280	89.1	(88.1-90.1)
60-69	322,499	309,377	95.9	(95.9-96)	8,124	7,233	89.0	(88.3-89.7)
50-59	374,021	351,342	93.9	(93.9-94)	14,501	12,430	85.7	(85.1-86.3)
40-49	298,028	267,245	89.7	(89.6-89.8)	22,286	17,771	79.7	(79.2-80.3)
30-39	316,652	262,879	83.0	(82.9-83.1)	25,393	17,108	67.4	(66.8-67.9)
18-29	344,457	284,417	82.6	(82.4-82.7)	26,448	18,058	68.3	(67.7-68.8)
12-17	180,415	126,576	70.2	(69.9-70.4)	17,838	10,879	61.0	(60.3-61.7)

Two doses:

Age Group	White				Black, Asian, Mixed and Other Combined			
	Denominator	Vaccinated (n)	(%)	95% CI	Denominator	Vaccinated (n)	(%)	95% CI
80+	141,891	138,383	97.5	(97.4-97.6)	1,711	1,514	88.5	(86.9-90)
70-79	273,826	265,760	97.1	(97-97.1)	3,680	3,234	87.9	(86.8-88.9)
60-69	322,499	307,368	95.3	(95.2-95.4)	8,124	7,093	87.3	(86.6-88)
50-59	374,021	347,377	92.9	(92.8-93)	14,501	12,167	83.9	(83.3-84.5)
40-49	298,028	261,238	87.7	(87.5-87.8)	22,286	17,312	77.7	(77.1-78.2)
30-39	316,652	251,370	79.4	(79.2-79.5)	25,393	16,162	63.6	(63.1-64.2)
18-29	344,457	267,748	77.7	(77.6-77.9)	26,448	16,571	62.7	(62.1-63.2)
12-17	180,415	85,167	47.2	(47-47.4)	17,838	7,242	40.6	(39.9-41.3)

Booster:

Age Group	White				Black, Asian, Mixed and Other Combined			
	Denominator	Vaccinated (n)	(%)	95% CI	Denominator	Vaccinated (n)	(%)	95% CI
80+	141,891	130,294	91.8	(91.7-92)	1,711	1,283	75.0	(72.9-77)
70-79	273,826	251,461	91.8	(91.7-91.9)	3,680	2,824	76.7	(75.3-78.1)
60-69	322,499	286,128	88.7	(88.6-88.8)	8,124	6,220	76.6	(75.6-77.5)
50-59	374,021	310,261	83.0	(82.8-83.1)	14,501	10,351	71.4	(70.6-72.1)
40-49	298,028	212,343	71.2	(71.1-71.4)	22,286	13,678	61.4	(60.7-62)
30-39	316,652	174,608	55.1	(55-55.3)	25,393	10,592	41.7	(41.1-42.3)
18-29	344,457	162,046	47.0	(46.9-47.2)	26,448	9,023	34.1	(33.5-34.7)
12-17	180,415	9,431	5.2	(5.1-5.3)	17,838	639	3.6	(3.3-3.9)

Vaccine coverage is lower among BAME communities compared to white residents. The inequality widens by up to 16% with younger age groups and this can be seen in both 1 dose and 2 dose coverage.

Figure 13 - Coverage of COVID-19 vaccination by age and WIMD quintile of deprivation of area of residence, CTMUHB at 10/02/2022

Age Group	Ethnic Group	Denominator	Dose 1		Dose 2		Booster	
			Vaccinated (n)	(%)	Vaccinated (n)	(%)	Vaccinated (n)	(%)
80+ Years	White	141,891	138,979	97.9	138,383	97.5	130,294	91.8
	Black	Suppressed	Suppressed	83.3	Suppressed	81.0	Suppressed	65.1
	Asian	Suppressed	Suppressed	91.0	Suppressed	88.9	Suppressed	79.3
	Mixed	Suppressed	Suppressed	94.4	Suppressed	93.8	Suppressed	83.6
	Other	Suppressed	Suppressed	85.8	Suppressed	85.0	Suppressed	70.0
	Unknown	7,640	5,742	75.2	5,613	73.5	5,194	68.0
70-79 Years	White	273,826	266,682	97.4	265,760	97.1	251,461	91.8
	Black	Suppressed	Suppressed	84.1	Suppressed	83.1	Suppressed	67.7
	Asian	Suppressed	Suppressed	90.1	Suppressed	88.5	Suppressed	81.4
	Mixed	Suppressed	Suppressed	91.0	Suppressed	90.2	Suppressed	81.1
	Other	Suppressed	Suppressed	86.8	Suppressed	85.4	Suppressed	75.7
	Unknown	16,613	14,074	84.7	13,743	82.7	12,856	77.4
60-69 Years	White	322,499	309,377	95.9	307,368	95.3	286,128	88.7
	Black	1,022	846	82.8	821	80.3	700	68.5
	Asian	4,115	3,774	91.7	3,717	90.3	3,296	80.1
	Mixed	2,136	1,895	88.7	1,857	86.9	1,616	75.7
	Other	851	718	84.4	698	82.0	608	71.4
	Unknown	31,899	25,416	79.7	24,754	77.6	22,472	70.4
50-59 Years	White	374,021	351,342	93.9	347,377	92.9	310,261	83.0
	Black	2,192	1,736	79.2	1,680	76.6	1,331	60.7
	Asian	7,091	6,367	89.8	6,270	88.4	5,541	78.1
	Mixed	3,790	3,206	84.6	3,115	82.2	2,587	68.3
	Other	1,428	1,121	78.5	1,102	77.2	892	62.5
	Unknown	46,838	33,077	70.6	31,974	68.3	27,424	58.6
40-49 Years	White	298,028	267,245	89.7	261,238	87.7	212,343	71.2
	Black	2,847	2,076	72.9	1,983	69.7	1,399	49.1
	Asian	11,601	9,795	84.4	9,627	83.0	8,137	70.1
	Mixed	5,407	4,212	77.9	4,052	74.9	2,949	54.5
	Other	2,431	1,688	69.4	1,650	67.9	1,193	49.1
	Unknown	47,833	30,044	62.8	28,542	59.7	21,576	45.1
30-39 Years	White	316,652	262,879	83.0	251,370	79.4	174,608	55.1
	Black	2,954	1,787	60.5	1,642	55.6	917	31.0
	Asian	11,094	7,753	69.9	7,473	67.4	5,296	47.7
	Mixed	8,388	5,739	68.4	5,347	63.7	3,368	40.2
	Other	2,957	1,829	61.9	1,700	57.5	1,011	34.2
	Unknown	49,294	30,722	62.3	28,437	57.7	18,639	37.8
18-29 Years	White	344,457	284,417	82.6	267,748	77.7	162,046	47.0
	Black	2,903	1,786	61.5	1,536	52.9	596	20.5
	Asian	10,045	7,443	74.1	6,992	69.6	4,188	41.7
	Mixed	10,823	7,176	66.3	6,560	60.6	3,510	32.4
	Other	2,677	1,653	61.7	1,483	55.4	729	27.2
	Unknown	50,946	31,858	62.5	28,594	56.1	17,190	33.7
12-17 Years	White	180,415	126,576	70.2	85,167	47.2	9,431	5.2
	Black	1,649	747	45.3	453	27.5	29	1.8
	Asian	6,074	4,466	73.5	3,130	51.5	288	4.7
	Mixed	8,417	4,805	57.1	3,102	36.9	278	3.3
	Other	1,698	861	50.7	557	32.8	44	2.6
	Unknown	6,039	2,335	38.7	1,372	22.7	173	2.9

Higher booster coverage among the least deprived can be seen across all age groups.